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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

(57) Abstract: The present invention relates to novel reproductive system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive system related antigens", and the use of such reproductive system related antigens for detecting disorders of the reproductive system, particularly the presence of cancers and cancer metastases. More specifically, isolated reproductive system associated nucleic acid molecules are provided encoding novel reproductive system associated ated polypeptides. Novel reproductive system related polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including reproductive system cancers, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Nucleic Acids, Proteins, and Antibodies

[001] This application refers to a "Sequence Listing" that is provided only on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.

[002] The Sequence Listing is provided as an electronic file (PC006PCT_seqList.txt, 20,399,961 bytes in size, created on January 12, 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: http://www.fileviewer.com).

Field of the Invention

[003] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel

reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[004] The human reproductive system enables continuation of the species. Human beings reproduce sexually, require the involvement of both a male and a female. Reproduction involves the coalition of sex cells. A new human being begins its development after a sex cell (sperm), created by the male unites with a sex cell (ovum) created by the female. Both the male and female reproductive systems function through the complex interaction of several organs. Diseases or malfunctions of these organs can impair reproduction or cause infertility.

The Male Reproductive System

[005] Male reproductive functions can be divided into three major subdivisions; spermatogenesis (the formation and maturation of sperm), performance of the male sexual act (arousal, erection, and ejaculation), and regulation of male sexual functions by the various hormones (mainly testosterone). Associated with these reproductive functions are the effects of the male sex hormones on the accessory sexual organs, cellular metabolism, growth, and on several other bodily functions. The onset of sexual maturation and these reproductive functions in males occurs at puberty, which, in humans, typically begins around age thirteen.

[006] The male reproductive system is composed of the testes, a pair of organs contained in the scrotum which include the seminiferous tubules and epididymus;

secretory glands, such as the prostate gland, seminal vesicles, bulbourethral glands, and urethral glands; tubular passageways, such as the vas deferens and urethra; and the penis, which functions in performance of the sexual act and sperm transmission.

[007] Common disorders of the male reproductive system include infections, cancers, and inflammations of the above listed components, which are described in greater detail below.

Disorders of the Testes

[008] The two primary functions of the testes are 1) production of testosterone and 2) production of sperm. Testosterone produced in the testes is released into the blood stream, where it travels to and acts on a wide range of tissues and organs within the male body. Disorders resulting from testosterone deficiency are manifested in the male reproductive system typically by symptoms of hypogonadism, which is the failure to go through puberty. Specifically, erectile function is impaired, and libido and sperm production are decreased or absent.

[009] Known dysfunctions of sperm production include aspermia (the failure to produce an ejaculate), asthenospermia (the production of an ejaculate in which less than 50% of spermatozoa are motile), azoospermia (the production of an ejaculate devoid of spermatozoa), oligospermia (production of an ejaculate containing less than 20x100 spermatozoa per milliliter of semen), and teratospermia (the production of an ejaculate in which more than 50% of the spermatozoa are of abnormal shape), all of which result in impaired fertility. Improper sperm formation may result from a variety of factors, including congenital defects, genetic abnormalities, injury, and infection. For example, contraction of the mumps virus early in male adolescence can infect the testicles, leading to permanent complications in sperm production.

- [010] Sperm formation may also be impaired by disorders of the epididymus, the labyrinthine tube system located in each testis where sperm mature. Common disorders include infections (e.g., Neisseria gonorrhoea, Pseudomonas, Enterobacteriaceae, and Chlamydia trachomatis), cyst formation or other obstructions, and enlargement of the spermatoceles (liquid filled cavities in the epididymus).
- [011] During fetal development, the testes mature within the abdominal cavity and descend through the inguinal canal into the scrotum prior to birth. It is well known

that the testicles reside in the scrotum because it is cooler than other places within the body cavity, and even minor temperature differences can have a dramatic influence on the ability of the testicle to make sperm. An undescended testicle, sometimes called a cryptorchid testicle, is a fairly common problem in male babies. Typically, testicles undescended at birth will move into the scrotum within the first year of life, however in a small percentage of cases this migration does not occur. Early correction of this problem is crucial in preserving the fertility of the male, as the testicles begin to loose the ability to make sperm very early in life in they are not properly stored in the scrotum. Additionally, undescended testicles have a much higher rate of developing testicular cancer than testicles that descended spontaneously. Testicular cancer is the most common solid tumor in males aged 18 to 35. It typically is extremely aggressive and spreads early. A tumor of the testicle often shows itself by a fast enlargement of the testicle. Bringing the testes into the scrotum will allow for easier and more accurate examination of the testes, hopefully resulting in earlier detection of tumors. Further, undescended testicles are also associated with a greater risk of hernia.

- [012] Disorders of the scrotal pouch commonly involve the small amount of fluid lining the pouch that allows for small movements and cushioning of the testicles. Several causes, such as testicular torsion, trauma, or tumors, may lead to an increase in the amount of liquid, causing the scrotal pouch to bulge. While this condition is harmless, it may cause irritation and discomfort if the bulge becomes too large.
- [013] Another harmless, yet irritating disease of the testes is varicocele, a disorder of the small vein that run the blood from the testicle back toward the heart. Small valves are present in these veins to prevent blood from flowing back toward the testicles. Sometimes, these valves malfunction, causing backflow and subsequent enlargement of the small vessel network in the scrotal sac. This gives rise to dull pain and an uncomfortable "bag of worms" feeling around the scrotum. There is currently considerable debate as to whether this phenomenon also contributes to decreased fertility.

Disorders of the Vas Deferens and Seminal Vesicles

[014] In the vas deferens, the sperm become mixed with a viscous, alkaline fluid from the seminal vesicles that constitutes 60% of semen. This fluid contains the

components for generating sperm motility and the enzymes necessary for fertilization of the egg within the female reproductive system. Disorders of the vas deferens and seminal vesicles are unusual, however a congenital defect where the vas deferens is absent is known to be associated with mutations in the CFTR gene, and a defect in seminal vesicle function is associated with the hydatid disease of the urogenital system.

Disorders of the Prostate Gland

Disorders of the prostate gland are typically manifested by enlargement of the gland, leading to such symptoms as impaired urinary flow, infertility, and pain. For example, benign prostatic hyperplasia is the non-cancerous growth of the prostate gland, a condition that is fairly common in men over sixty. Prostate cancer, too, is extremely prevalent and is now the second most common type of cancer in males. Although men of any age can develop prostate cancer, it is found most frequently in men over age 50. Types of prostate cancers include, but not limited to, adenocarcinomas, transitional cell carcinomas, ductal carcinomas, and squamous cell carcinomas. The prostate is subject to infections or inflammation, which may also result in enlargement of the prostate, such as acute bacterial prostatitis, chronic bacterial prostatitis, and nonbacterial prostatitis.

Disorders of the Penis and Urethra

[016] During sexual activity, the penis becomes rigid and erect, enabling penetration and deposition of sperm. An erection results from complex interaction of neurologic, vascular, hormonal, and psychologic actions. Several types of infections and inflammatory disorders can effect the penis and its function. Balanoposthitis is a generalized inflammation of the head of the penis (glans penis) and foreskin, commonly caused by a yeast or bacterial infection beneath the foreskin of an uncircumcised penis. Symptoms include pain, itching, redness, and swelling and can ultimately lead to a narrowing (stricture) of the urethra. Other infectious and inflammatory disorders, such as balanitis xerotica obliterans (a hardening of the tip of the penis which ultimately blocks urine and semen flow), phimosis (the shrinking or tightening of the foreskin), paraphimosis (inability of the retracted foreskin to be

pulled back over the head of the penis), and Erythroplasia of Queyrat (an infection causing a clearly defined reddish, velvety area on the skin of the penis). If left untreated, many of these infections may become cancerous.

- [017] Other infections can lead to penile growths, such as the small painless sores associated with syphilis, tiny blisters from the herpes simplex virus, firm nodules from genital warts, and dimpled growths (molluscum contagiosum) from an unknown virus. Small sores and growths are also associated with skin cancers (e.g., squamous cell carcinoma, Bowen's disease, and Paget's disease) that can occur anywhere on the penis.
- Priapism is a painful, persistant erection unaccompanied by sexual desire or excitement. In most cases, priapism is believed to stem from habitual drug use, but is had also been associated with blood disorders (e.g., blood clots, leukemia, or sickle cell disease), tumors in the pelvis or spine, and infection of the genitals. Peyronie's disease is manifested as a fibrous thickening of tissue that causes the penis to develop contractures so that the shape of an erection is distorted. The curvature of the erect penis can make sexual penetration difficult or impossible and may make erections extremely painful. Current therapies include corticosteroid injections, ultrasound treatments, or, more commonly, surgery, which may lead to impotence.
- [019] Impotence, or erectile dysfunction, is the consistent or recurrent inability to attain and maintain a penile erection rigid enough for satisfactory sexual intercourse. Erectile dysfunction relates only to the erectile capability of the penis, excluding problems of libido, ejaculation, and orgasm. It is now accepted that the majority of cases have a physical and not a psychogenic root. Physical causes include anatomic deformations (e.g., malformed genitalia or penile injury), diabetes mellitus, coronary disease, hypertension, atherosclerosis, high cholesterol levels, multiple sclerosis, stroke, lower spine diseases, and rectal or prostate surgery.

The Female Reproductive System

[020] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs

form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[021] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[022] Common disorders of the female reproductive system include infections, cancers, and inflammations of the organs, which are described in greater detail below.

Disorders of the Uterus

- Disorders of the uterus include absent bleeding (amenorrhea) and abnormal bleeding. Amenorrhea is normal only before puberty, during pregnancy, while breastfeeding, and after menopause. The absence of menses at other times is considered aberrant and may be indicative of problems in the brain, pituitary gland, thyroid gland, adrenal glands, ovaries, or virtually any other part of the reproductive tract. For example, the hypothalamus signals the pituitary gland to release hormones that cause the ovaries to release eggs. Inappropriately low levels of hypothalamic hormones prevent egg release, halting the menstrual cycle. The same is true for the thyroid and adrenal glands. To illustrate, in Cushing's syndrome, excess production of cortisol by the adrenal glands causes periods to be absent or irregular. The absence of periods can also be caused by growths (e.g., hydatidiform moles) or scarring of the uterine lining due to infection or surgery (e.g., Asherman's syndrome).
- [024] Some women do not undergo puberty at all consequently their periods never start. Causes include a birth defect in which the uterus or fallopian tubes develop abnormally and chromosomal disorders. For example, in Turner's syndrome, the female was formed from a zygote containing only one X chromosome and shows reproductive abnormalities, such as amenorrhea and chronically immature breasts, labia, vagina.
- [025] Premature menopause is also a condition resulting in amenorrhea. Menopause is considered abnormal when it occurs in women under the age of forty. Causes of premature menopause include genetic (usually chromosomal) abnormalities and

autoimmune disorders in which antibodies damage the ovaries. Estrogen replacement therapy can prevent or reverse the symptoms of menopause, however the chance of conceiving a child remains less than ten percent.

- [026] Uterine bleeding is considered abnormal when it is atypically heavy, light, frequent, or irregular. Moreover, bleeding before puberty or after menopause is almost always abnormal. Uterine polyps, fibroids (noncancerous growths of muscle and fibrous tissues), and cancers are common causes of abnormal uterine bleeding and usually can be surgically removed. Cancers of the uterus include adenocarcinomas (cancers arising from the endometrial lining), leiomyosarcomas (cancers of the uterine smooth muscle), and sarcomas (cancers arising from the stroma).
- [027] Aberrant bleeding resulting from hormonal irregularities (commonly referred to a dysfunctional uterine bleeding) occurs most frequently at the beginning and end of the reproductive years and typically results from sustained levels of estrogen. For example, in polycystic ovary syndrome the overproduction of luteinizing hormone stimulates the production of large amounts of androgens some of which are converted to estrogen-which, without sufficient progesterone to counteract its effects, induces abnormal uterine bleeding.
- [028] Endometriosis is a disorder of the uterus in which patches of endometrial tissue, which normally is found only in the uterine lining, grow outside the uterus. Because the misplaced tissue responds to the same hormone that the uterus responds to, it may bleed during the menstrual period, causing cramps, pain, irritation, and the formation of scar tissue. As the disease progresses, adhesions may form and block the functioning of organs.
- [029] Disorders of uterine contraction include, for example, dysmenorrhea and preterm labor. During a normal period, the uterus undergoes mild contractions in order to aid in blood flow. Dysmenorrhea results when the contractions become inappropriately strong, inhibiting blood flow to the uterus. This deprives uterine muscle of oxygen, causing severe abdominal pain, as well as nausea, vomiting, diarrhea, headaches, weakness, and/or fainting. Sever cases of dysmenorrhea can significantly disrupt a womans life, leading to heavy work/school absenteeism and cases of pain killer addiction. Pre-term labor is also aserious problem, resulting in a dramatic rise in associated infant morbidity and mortality (83% of infant deaths occur

in gestations less than 37 weeks). Therapies for extending the length of pregnancy beyond 32 weeks, and preferably beyond 36 weeks, could significantly reduce the incidence of neonatal morbidity and virtually eliminate a major cause of neonatal mortality.

Disorders of the Ovary

- [030] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.
- [031] Anovulation is also associated with polycyctic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is and endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.
- [032] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.
- [033] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Vagina and Vulva

[034] The vagina and vulva are self-cleaning. Secretions and discharges flow downward through the vagina and vulva, flushing out dead cells and other substances. Despite this cleaning mechanism, infections and inflammation are a common problem. The most common vaginal infections are bacterial vaginitis, candida vaginitis (e.g., yeast infections), trichomonas vaginitis, and vulvitis. Vaginal or vulvar itching, irritation, and abnormal discharge characterize all.

[035] Cancer of the vagina is extremely rare, accounting for only two percent of all gynecological cancers, and occurs primarily in women over the age of 50. The severity of the disease depends on the type of cancer and its exact location. Varieties include, for example, squamous cell carcinoma and clear cell adenocarcinoma. Once cancer appears in the vagina, it easily spreads to surrounding tissues. Vulvar cancer is equally unusual as vaginal, and is predominantly manifested as a form of skin cancer, e.g. squamous cell carcinomas and basal cell carcinomas. Other vulvar cancers include Paget's disease, cancer of Bartholin's gland, and melanomas. Unlike cancer of the vagina, vulvar cancers typically grow slowly and infrequently metastasize.

Disorders of the Breast

[036] Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.

[037] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that forma mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.

[038] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the

nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[039] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

The discovery of new human reproductive system associated polynucleotides, [040] the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the reproductive system, including, but not limited to, disorders of the male reproductive system including, for example, testicular disorders (e.g., hypogonadism, infection (e.g. Neisseria gonorrhoea, Enterobacteriaceae, and/or as described in the "Reproductive System Disorders" section below), asthenospermia, teatospermia, cryptorchid testicle, testicular cancers, varicocele, and/or as described in the "Reproductive System Disorders" section below), prostate disorders (e.g., prostate cancers, benign prostatic hyperplasia, and/or as described in the "Reproductive System Disorders" section below), disorders of the penis (e.g., balanoposthitis, phimosis, genital warts, skin cancer, priapism, Peyronie's disease, erectile dysfunction, and/or as described in the "Reproductive System Disorders" section below); and disorders of the female reproductive system including, for example, disorders of the uterus (e.g., Cushing's syndrome, Asherman's syndrome, Turner's syndrome, premature menopause, uterine cancers, endometriosis, and/or as described in the "Reproductive System Disorders" section below), ovarian disorders (e.g., anovulation, polycystic ovary syndrome,

ovarian cancers, and/or as described in the "Reproductive System Disorders" section below), vaginal and vulvar disorders (e.g., vulvitis, vaginal infections, Paget's disease, cancers of the vagina and vulva, and/or as described in the "Reproductive System Disorders" section below), and breast disorders (e.g., breast cancers, fibroadenomas, intraductal papillomas, and/or as described in the "Reproductive System Disorders" section below).

Summary of the Invention

The present invention relates to novel reproductive system related [041] polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polyneptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

Table 1A summarizes some of the polynucleotides encompassed by the [042] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each reproductive system associated contig sequence disclosed in Table 1A. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEO ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1A as "Predicted Epitopes." In particular embodiments, reproductive system associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1A. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first

number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array, cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian

Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in Table 1A, column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

- [043] Table 1B summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).
- [044] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1A and allowing for correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity

disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[045] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to reproductive system associated contig sequences disclosed in Table 1A. The second column provides the sequence identifier, "SEQ ID NO:X",-for contig polynucleotide sequences disclosed in Table 1A. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1A. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth

column of this Table (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone).

- Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1A, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1A, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.
- Table 5 provides a key to the OMIM™ reference identification numbers disclosed in Table 1A, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). Column 2 provides diseases associated with the cytologic band disclosed in Table 1A, column 8, as determined from the Morbid Map database.
- [048] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.
- [049] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.
- [050] Table 8 provides a physical characterization of clones encompassed by the invention. The first column provides the unique clone identifier, "Clone ID NO:Z",

for certain cDNA clones of the invention, as described in Table 1A. The second column provides the size of the cDNA insert contained in the corresponding cDNA clone.

Definitions

[051] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof, a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1A) or the complement thereof, a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1A and contained within a library deposited with the ATCC); a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment or variant thereof; or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof. For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-Phenylalanine or poly-Lysine peptide

sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement therof, or cDNA sequence contained in Clone ID NO:Z, or a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, an amino acid sequence encoded by SEQ ID NO:B, or the complement thereof, and fragments or variants thereof as described herein). These reproductive system antigens have been determined to be predominantly expressed in reproductive system tissues, including normal or diseased tissues (as shown in Table 1A column 7 and Table 4).

[055] In the present invention, "SEQ ID NO:X" was often generated by overlapping sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1A, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on October 5, 2000, having the ATCC designation numbers PTA 2574 and PTA 2575; and on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC

Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1A correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[057] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein) and/or the polynucleotide sequence delineated in column 6 of Table 1B or the complement thereof. "Stringent hybridization conditions" refers to an overnight incubation at 42

degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

- [058] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions. Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH₂PO₄; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).
- [059] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.
- [060] Of course, a polynucleotide which hybridizes only to polyA+ sequences (such as any 3' terminal polyA+ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).
- [061] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-

stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons. "Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

The polypeptide of the present invention can be composed of amino acids [062]joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of Polypeptides may be branched, for example, as a result of modifications. ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphotidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation. gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation. myristoylation, oxidation, pegylation, proteolytic processing.

phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

- [063] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1A. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1A. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1A.
- "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).
- [065] Table 1A summarizes some of the reproductive system associated polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

Clone ID	Contig	SEO ID	ORF	AA	Predicted Epitones	Tissue Distribution	Cytologic	OMIM
NO: Z	ä	ID: NO: X	(From-To)	SEQ	4	Library code: count	Band	Disease
				<u>e</u>		see Table IV for		Reference(s):
				NO: Y		Library Codes)		
H7MCE35	928554	11	71 - 3	8697		S0286: 1 and S0284: 1.	1	
H7MDC49	722780	12	125 - 3	5698		S0284: 2 and L0758: 1.		
H7MDD72	847688	13	100 - 510	2700	Glu-9 to Gly-22,	AR054: 6, AR050: 2,	1	,
					Lys-50 to Lys-69,	AR051: 1, AR089: 1,	ı	-
			,		Gly-91 to Arg-107,	AR061: 0		
					Pro-113 to Ile-129,	S0284: 2	•	1 .
					1yr-131 to Gin-137.			
	887805	2651	3 - 824	5338				
HAOSH55	952380	14	2 - 355	2701	Pro-17 to Glu-28,	L0770: 3, H0686: 1,		Í
					Gly-86 to Ser-92.	H0634: 1, L0761: 1,		ı
						L0772: 1, L0764: 1,		
						L0805: 1, L0786: 1 and		
						L0779: 1.		
HAQAK73 764671	764671	15	449 - 661	2702	Glu-16 to Pro-21,	H0295: 2 and L0748:		
					Leu-28 to Asp-34,	2.		,
					Glu-39 to Ser-56,			
					Glu-59 to Gly-67.			
HAQAM17	664979	16	1 - 198	2703		H0295: 1 and H0435:		,
						1.		
HAQBF84	783259	17	2 - 70	2704		H0295: 2		
HAQBJ71	839982	18	17 - 367	2705	Ala-55 to Phe-72.	H0295: 3 and H0294:		
						1.		
HAQBQ50	522004	19	3 - 59	2706		H0295: 2		

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							,		. ,			,	1								1	104770,	107670,	110700,	135940,
				1+			,		1										,			1421		1	
H0295: 2, L0649: 1, L0663: 1, H0435: 1 and H0670: 1.	H0294: 2 and H0435:	H0294: 2	H0664: 2	H0663: 1 and S0152: 1.	H0663: 2	H0663: 2, L0758: 2,	L0748: 1 and L0591: 1.	L0749: 2, H0663: 1,	H0662: 1 and L0438: 1.	H0181: 2	H0181: 1 and H0617:	1.	H0662: 2, H0181: 2,	L0766: 2, L0455: 1,	L0740: 1, L0779: 1 and	L0362: 1.	H0553: 2, H0181: 2,	L0743: 2, L0639: 1,	L0787: 1, L0790: 1,	L0747: 1, L0780: 1,	L0752: 1 and L0755: 1.	H0181: 2			
			Val-17 to Thr-27.		Arg-1 to Trp-15.	Glu-24 to Lys-29,	Lys-35 to Gln-40.	Gly-1 to Gly-6,	Gly-41 to Pro-46.	Asn-37 to Gly-44.	Pro-31 to Glu-36.		1					,				Val-57 to Leu-66,	Val-79 to Gly-84.		
2707	2708	2709	2710	2711	2712	2713		2714		2715	2716		2717				2718					2719			
159 - 437	3 - 134	209 - 337	228 - 374	15 - 140	138 - 1	3-317		390 - 575		3 - 185	2 - 184		1 - 420				1 - 195					1 - 324			
. 70	21	22	23	24	25	26		27		28	29		30				31					32			
847519	529711	968339	957826	963634	922401	951787		930682		525846	957870		922396				524532					954299		·	
HAQBS37 847519	HAUBD69	HAUBU10	HBCJS08	HBCPD14	HBCQ103	HBCQS90		HBCQS93		HBGBD28	HBGBF56		HBGBG42				HBGBH43				\neg	HBGBS07			

145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105,	601412, 601652, 602491								
		H0181: 2	HUOI /: 2 and HUI8I: 1.	H0181: 2 and H0617: 1.	H0181: 2	H0181: 2	H0181: 1 and H0617:	H0181-3	L0040: 1, H0188: 1,
		Arg-7 to Trp-17.		Glu-1 to Gly-9.	Thr-1 to Pro-6.	Pro-6 to Leu-12.		Trp-8 to Gln-20.	Gln-19 to Glu-24,
		2720	17/7	2722	2723	2724	2725	2726	2727
1	700	57 - 407	771-76	31 - 156	163 - 507	1 - 132	122 - 259	2 - 220	3 - 302
		34		33	36	37	38	39	40
	030303	954916	20405	324930	525618	524875	971696	974223	954306
	UBCBTTO			7/ wgDgu	HBGDA44	HBGDE85	HBGDS13	HBGDT43	HBGFA62

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H0606: 1, L0762: 1,	L0803: 1, L0774: 1 and	L0509: 1.	H0617: 2		H0617: 3	L0764: 2, L0783: 2,	H0182: 1, H0617: 1,	H0616: 1, L0765: 1,	L0375: 1, L0659: 1,	L0809: 1, L0663: 1,	L0731: 1 and L0361: 1.	H0617: 2	AR089: 15, AR061: 10	H0617: 8, L0763: 2,	L0754: 2, H0483: 1 and	L0743: 1.		H0617: 2	H0617: 2, L0758: 2,	H0181: 1, L0521: 1,	L0666: 1 and L0779: 1.	ı			H0617: 3				
	Ser-47 to Ser-56,		Thr-1 to Ser-6,	Thr-23 to Pro-30.	Leu-36 to Asn-42.	Pro-13 to Ser-19,						Arg-71 to Arg-76.			Gly-73 to Ala-80,	Gln-147 to Trp-154,	Val-176 to Lys-191.			Gly-17 to Val-25,		Ala-56 to Gly-64,	Glu-121 to Thr-129,	Arg-156 to Asp-174.	Gly-3 to Thr-15,	Pro-49 to Ser-54,	Pro-56 to His-63,	Gly-81 to Pro-87,	Pro-92 to Thr-98.
			2728		2729	2730	_					2731	2732					2733	2734						2735				
	,		266 - 589		84 - 329	162 - 434						22 - 279	575 - 3		ł			82 - 162	1 - 522						1 - 330				
			41		42	43						44	45					46	47						48				
			870189		933763	966132						845194	947112					958257	848219						914594				
			HBGMD05		HBGMD62	HBGMF10		·				HBGMG29	HBGMZ39					HBGNA08	HBGND09						HBGNJ14				

			•											,	,	1								ı				
							1-4		,	1																		
H0617: 2	H0181: 1 and H0617:	1.			AR054: 129, AR051:	118, AR050: 110	H0617: 4 and L0770:	2.		H0617: 2, H0663: 1	and H0181: 1.	H0617: 2, L0439: 2,	L0771: 1, L0766: 1,	L0779: 1 and L0752: 1.			H0617: 2		H0617: 2	L0041: 2, H0617: 2,	L0659: 1, L0438: 1 and	L0601: 1.	H0617: 2		H0617: 2, L0780: 1,	L0752: 1 and L0594: 1.	H0617: 4	H0617: 3
	Glu-14 to Cys-20,	Glu-22 to His-32,	Asp-39 to Thr-52,	Lys-92 to Asp-101.	Cys-7 to Gly-12,	Ser-19 to Thr-26,	Ala-31 to Leu-36,	Ser-47 to Ser-57,	Glu-75 to Phe-83.	Gly-58 to Pro-69.	:	Thr-21 to Lys-27,	Cys-33 to Pro-38,	Lys-68 to Trp-103,	Pro-118 to Val-124,	Pro-129 to Lys-137.	Leu-30 to Thr-56,	Arg-61 to Thr-71.			1		Gly-22 to Ala-31,	Arg-58 to Trp-73.	Leu-14 to Pro-20,	Ser-49 to Ile-55.		Pro-13 to Arg-26.
2736	2737				2738					2739		2740					2741		2742	2743			2744		2745		2746	2747.
12 - 197	2 - 358				2 - 268		١			24 - 263	•	10 - 420					665 - 561		3 - 278	1 - 369			1 - 219		158 - 340		14 - 274	2 - 205
49	50				21					52		53					54		55	99			57		58		59	09
912730	952212				887152					966696		883111					967261		848156	958290			926876		918513		973425	930706
HBGNM13	HBGNO07 952212				HBGNQ31					HBGNW29		HBGOB07					HBG0J28		HBGOK53	HBGOL08			HBGPE04		HBGPH02		HBGPK33	HBGPV05

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																			191170,								
																			17p13.1								
H0181: 1 and H0617:	1.	L0777: 3, H0617: 2,	L0731: 2, H0606: 1,	L0769: 1, L0803: 1,	L0743: 1, L0744: 1,	L0750: 1 and L0779: 1.			H0617: 3	L0794: 3, H0617: 2,	L0750: 1 and L0758: 1.	AR051: 23, AR050:	17, AR054: 16	H0617: 4		·			H0253: 1 and H0188:	H0618: 1 and H0188:	1.	H0188: 2	H0188: 2		H0188: 2	H0188: 2	H0188: 2 and L0603:
Met-3 to Asn-8,	Ala-11 to Pro-39.	Arg-4 to His-10,	Pro-14 to Thr-20,	Glu-28 to Arg-35,	Thr-40 to Ser-56,	Thr-61 to Ser-75,	Pro-93 to Arg-102,	Asp-118 to Arg-124.	Pro-70 to Arg-78.	Pro-28 to Trp-34.		Asp-43 to Arg-49,	Glu-55 to Asp-64,	Glu-75 to Arg-81,	Leu-89 to Gly-98,	Leu-110 to Lys-115,	Asn-131 to Thr-141,	Asn-152 to Lys-160.	Ser-8 to Leu-20.				Asn-3 to Ser-15,	Lys-21 to Asn-30.	Gly-21 to Pro-27.		Leu-14 to Thr-20.
2748		2749							2750	2751		2752							2753	2754		2755	2756		2757	2758	2759.
1 - 309	1	3 - 413							1 - 273	13 - 561		3 - 581			ı				1 - 138	86 - 271		1 - 231	123 - 302		2 - 226	1 - 87	245 - 400
61	,	62							63	64		65							. 99	29		89	69		70	71	72
954302		923142							965509	914573		886529							966536	008099		655514	655842		524954	530843	558193
HBGQG66 954302	- 1	HBGSD40							1	HBGTL01		HBGTR84								HBNAF14		HBNAI71	HBNAN41			HBNAX71	HBNAY58

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			,		3.2 123620,	138720,	145410,	188826,	231950,	239500,	275350,	600850														
					22q11.2-q1	,						,														
H0188-2	S0188: 2	S0190·2	S0190: 2	S0190: 2	H0059: 1 and S0190: 1.22q11.2-q13.2 123620,								H0661: 1 and H0553:	1. D0661.2	110001: 2	L0770: 3, L0776: 3, H0686: 1, H0661: 1	L0021: 1, L0761: 1	L0766: 1, L0659: 1,	L0647: 1, L0752: 1 and	L0605: 1.	H0661: 2	S0398: 2	S0398: 2	S0398: 2		L0758: 13, H0253: 4,
Gln-48 to Pro-56.	Phe-13 to Phe-18, Glv-23 to Arg-38	Ser-1 to Ser-11.	Thr-29 to Arg-34.		Val-3 to Lys-9.								Ser-1 to Met-6.		-	Lys-28 to Phe-34.					Lys-33 to Arg-38.			Thr-6 to Leu-12,	Tyr-19 to Lys-28.	Ser-10 to Gly-23.
2760	2761	2762	2763	2764	2765								2766	7767	4/0/	2768		_			2769	2770	2771	2772		2773
201 - 380	1 - 330	93 - 212	116 - 301	2 - 352	111 - 383								322 - 119	183 - 521	170 001	8 - 130			_		2 - 283	3 - 125	2 - 181	22 - 120		2 - 901
73	74	75	92	<i>LL</i>	78								79	08	3	81					82	83	84	85		86
524869	692559	655619	760418	655737	664013								914333	950897		951820					922351	915613	835781	726339		915239
HBNBT52	HBZAJ09	HBZSH16	HBZSH71	HBZSI73	HBZSK17								HCBMV01	HCBNW02		HCBNW07 951820					HCBOG03		HCDMB16	HCDMB60	T	HCDMC01

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				300077,	300500,	300650,	301200,	302350,	302950,	508/00,	$\frac{311200}{312040}$,													
		13		Xp22.3			•	,						13									,		
H0618: 3, H0038: 1, L0779: 1 and S0398: 1.	S0398: 2	H0483: 2	H0483: 2	H0483: 2								H0483: 1 and H0550:	1.	H0483: 4 and H0484:	-	H0484: 2	H0616: 7, L0758: 5,	H0484: 1, H0040: 1,	L0768: 1, L0774: 1 and	L0775: 1.	H0484: 2			H0484: 1 and H0483:	1.
		Lys-29 to Arg-34.	Cys-1 to Pro-10, Thr-19 to Glu-28, Arg-36 to Asn-44	Ser-24 to Gly-29,	Asn-47 to Pro-53,	Pro-74 to Gly-79.						Phe-24 to Gln-30,	Gln-32 to Leu-42.	Asp-1 to Phe-21.			Glu-14 to Ser-21,	Asp-67 to Asp-73.			Leu-26 to Cys-39,	Cys-41 to Lys-50,	Gly-87 to Glu-93.	Glu-11 to Gly-17,	Arg-25 to Ser-36.
	2774	2775	2776	2777								2778		2779		2780	2781				2782			2783	
	2 - 184	78 - 269	3 - 134	1 - 366_				*				1 - 318		190 - 459		35 - 343	144 - 455		· •		1 - 321			2 - 214	
	87	88	88	06			-					91		35		93	8	-			95			96	
	642929	923764	675465	715128								665184		923763		668518	880282				740102			954866	
	HCDMD23	HCHAD40	HCHAR16	HCHAR43								HCHAR67		HCHBQ03	20 20 22/0/44	HCHML32	HCHIND96				HCHOA76 740102			нснор89	

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H0484: 1 and H0483: 1.	H0484: 2, L0803: 1	and L0758: 1.		•		AR089: 42, AR061: 34	H0651: 154, L0731: 9,	L0777: 6, L0803: 4,	L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,
Gly-1 to Gly-14.	Pro-13 to Gly-20,	Ser-29 to Ala-45,	Ser-66 to Ala-72,	Phe-74 to Trp-87,	Pro-102 to Arg-107.	Ala-2 to Lys-10,	Glu-70 to Gln-76.									-	í											
2784	2785					2786																						-
1 - 129	3 - 455					968 - 825								,														
26	86					66																						
717671	934941					927904																						
HCHPO55	нсновое					HCMSE07																						

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											2103050.	103050,	124030,	124030,	138981,	182380,	188826,	190040,	190040,	190040
										· · · · · · · · · · · · · · · · · · ·	22q13.1-q13.2103050.	1			•					
L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1,	S0026: 1, S0242: 1, and S0460: 1.	L0768: 2, H0150: 1 and H0670: 1.	H0670: 2	H0670: 2	H0670: 2	H0059-1 10803-1	and H0670: 1.				AR089: 15, AR061: 5	H0662: 2, H0670: 1,	L0756: 1 and L0759: 1.							
		Arg-1 to Pro-10, Ile-21 to Gly-34.	Tyr-10 to Cys-17.	Ser-40 to Gly-45, Pro-55 to Asp-67	100000000000000000000000000000000000000	Val-19 to Tm-24	Lys-70 to Lys-78,	Ser-83 to Leu-100,	Val-112 to Trp-117,	Thr-119 to Lys-125, Cvs-133 to Pro-143.	Asp-43 to Glu-48.									
		2787	2788	2789	2790	2791					2792							-		
'		120 - 296	68 - 3	75 - 458	83 - 283	1 - 471	•				89 - 592					,				
		100	101	102	103	104					105								•	
		932878	925748	951665	191696	961595					908396									
			HC00G04	HCOOI07	HC00M77	HC00X10					HC00Z11									

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H0169: 2, L0809: 1, H0670: 1 and 1.0599: 1	H0670: 4, L0776: 2,	L0666: 2, L0/59: 2, H0661: 1, L0717: 1.	L0664: 1, L0779: 1,	L0777: 1, L0752: 1 and	H0670: 2 and L0366:		H0670: 2	H0683: 122, L0740: 6,	L0747: 5, L0438: 4,	L0439: 4, L0756: 3,	H0156: 2, L0521: 2,	H0658: 2, L0754: 2,	L0750: 2, L0779: 2,	C0777: 2, L0731: 2,	C0759: 2, H0171: 1,	H0486: 1, H0244: 1,	H0427: 1, H0310: 1,	H0052: 1, H0263: 1,	10596: 1, L0163: 1,	H0051: 1, H0328: 1,	S0112: 1, L0768: 1,	.0803: 1, L0774: 1,	L0527: 1, L0517: 1,	.0783: 1, L0666: 1,	.0663: 1, H0670: 1,	H0648: 1, S0152: 1,
Gly-11 to Ser-16.	Gln-20 to Tyr-25,	Asp-/3 to Ser-/9.			Ala-52 to Lys-58,	Gly-72 to Arg-79.		Glu-40 to Asn-46.					I				<u>r</u>	11	<u>- 1-1-1</u>		<u> </u>	<u>. P-l</u>	<u> </u>	.		4
2793	2794				2795		2796	2797					-								·. <u>-</u>					
259 - 585	409 - 684				292 - 564		187 - 429	1335 - 1553				,					-									
106	107				108		109	110																		
954332	965299				969151		951658	961388											-		•					
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		t d	,		,	4															1	
S0146: 1, H0478: 1, L0752: 1, L0758: 1 and S0412: 1.	AR061: 8, AR089: 5 H0038: 4, H0616: 3, L0747: 3, L0663: 2,	L0758: 2, H0369: 1, H0428: 1, L0769: 1,	L0542: 1, L0809: 1, L0666: 1, L0665: 1	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0369: 2	H0369: 2 and H0664:	1.	H0369: 2	H0369: 1 and H0040:	1.	H0369: 2	H0369: 2	L0748: 3, H0369: 1	and H0031: 1.	H0369: 2	H0369: 2	H0369: 2 and L0747:	****	H0534: 4 and H0533:	3.	H0549: 2
		-	*			Glu-7 to Arg-24.	His-33 to Val-39.			1				Phe-71 to Gln-78,	Lys-87 to His-95.	Gly-12 to Ile-18.		Asp-25 to Glu-30,	Leu-39 to Val-48.	Ser-5 to Tyr-19,-	Arg-22 to Thr-32.	Glu-21 to Lys-30,
	2798					2799	2800		2801	2802		2803	2804	2805		2806	2807	2808		2809		2810
	3 - 272	,			,	1 - 360	69 - 188		114 - 221	2 - 154		78 - 227	168 - 401	114 - 488		121 - 471	99 - 236	219 - 449		1 - 147		1 - 159
	111					112	113		114	115		116	117	118		119	120	121		122		123
	963100					574510	574232		574008	625096		932383	653242	531348		733632	968200	574508	·	752875		741305
	HEAAA42		,			HEAAB77	HEAAK46			HEAAM52		HEAAN18		HEAAT36		HEAAT60	HEAAV10	HEAAV33		HEDAE67	\neg	HEEAD64

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	H0549: 2	H0549: 2			AR054: 10, AR051: 9,	· ∞	H0549: 2	H0549: 2	H0549: 2	H0369: 2 and H0549:	2.	H0549: 2	H0549; 2	H0549: 2 and L0600:	<u></u>	H0549: 2	H0549: 2	H0550: 2		H0550: 2	AR089: 13, AR061: 8	H0618: 2 and H0550:	1.	H0550: 2 and L0750:	1.	H0550: 1 and H0328:	H0550: 1, H0644: 1
Gly-33 to Ser-39.	Pro-44 to Phe-50.	Lys-25 to Gly-34,	Pro-42 to Trp-57,	Lys-71 to Asp-82.				Gly-24 to Leu-30.	Glu-12 to Gln-19.	Val-19 to Ser-25,	Arg-39 to Ser-60.		Ala-76 to Gly-84.	Ala-17 to Gly-30,	Arg-39 to Trp-46.	Lys-12 to Trp-17.	Phe-27 to Trp-32.	Gly-1 to Glu-10,	Gly-41 to Val-47.	Ser-52 to Trp-58.			•	Ser-48 to Lys-54.			Ala-51 to Glu-60,
	2811	2812			2813			2814	2815	2816		2817	2818	2819		2820	2821	2822		2823	2824			2825	7000	9787	2827
	1 - 150	246 - 1			3 - 332			140 - 253	167 - 283	3 - 203		1 - 147	3 - 278	1 - 228		55 - 195	28 - 168	1 - 204		150 - 425	1 - 351			281 - 475	117 255	113 - 333	1 - 330
	124	125			126			127	128	129		130	131	132		133	134	135		136	137			138	130	- KCI	140
	851219	785121			887321			673904	780838	887312		676721	735620	706935		851213	626299	91/9/9		767284	823900			754344	065102	01606	955291
	HEEAH07	HEEAJ58			HEEAJ76			HEEAK22	HEEAK84	HEEAL31		HEEAN24	HEEAS58	HEEAU79		HEEAW01	HEEAW13	HEGAA24		- 1	HEGAB84		\neg	HEGAC69	HEGA COS	TECHOO!	HEGAI82

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and L0659: 1.	AR054: 16, AR051: 5,	AR050: 3	H0550: 2 and L0749:	1.	AR089: 9, AR061: 7	H0550: 1 and H0253:	1.	L0754: 4, L0776: 2,	L0743: 2, L0750: 2,	L0779: 2, H0550: 1,	L0769: 1 and H0658: 1.	H0550: 2				·	H0550: 2	H0550: 1, H0212: 1	L0745: 1 and L0746: 1.	H0550: 2		1	H0550: 2		AR050: 66, AR054:	55, AR051: 37, AR089:	11, AR061: 6	H0549: 1 and H0550:
Pro-88 to Ser-104.	Ala-29 to Lys-51,	Arg-69 to His-75.			Lys-1 to Ser-52.			Asn-4 to Asn-10,	Gly-14 to Asp-21,	Leu-26 to Gly-39.		Gly-1 to Gly-10,	Glu-46 to Ser-52,	Pro-61 to Pro-67,	Arg-69 to Asp-75,	Ser-82 to Ser-87.	Tyr-36 to Thr-41.	Val-1 to Leu-6,	Arg-13 to Phe-18.	Leu-22 to Ser-28,	Lys-36 to Lys-43,	His-56 to Pro-65.	His-32 to Trp-37,	Pro-39 to Thr-53.			Thr-114 to Ile-119.	
	2828				2829		0000	2830				2831					2832	2833		2834			2835		2836			
	54 - 305				3 - 326		7.50	3 - 254				59 - 319			ı		117 - 239	462 - 644		1 - 195			1 - 204		12 - 560			
	141			,	142		1.45	143				144					145	146		147			148		149			
	887299			10000	/80837		024705	934/02	•			697419					706951	719387		906669			726316		950033			
	HEGAK04			200 1041	HEGAO83		THEADOK	nEGALO				HEGAP31					HEGAP36	HEGAR53		HEGAY32			HEGAY52		HEGAZ61			•

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			155555,	155555,	227650,	253000,	602783			120215,	120215, 190198		ŧ					•			147200,	178640,	216900		
			16q24.3	•		1.0		ı		9q34.2-q34.3											2p12			1	
H0150: 2	H0150: 2		AR050: 154, AR051:	146, AR054: 141	H0150: 3			H0150: 2	H0150: 3 and L0763:	H0150: 2		H0150: 2		,	H0549: 1, H0150: 1,	L0761: 1 and L0764: 1.	H0150: 2		L0758: 3, H0150: 2,	L0803: 1 and L0779: 1.	H0150: 2			H0150: 2	H0150: 2, L0369: 1
Ala-6 to Gln-12.	Ser-7 to Asp-20,	Inr-30 to Phe-41, Gly-55 to Gly-61.	Ala-20 to Gln-36,	Pro-38 to Asn-50.					Ile-14 to Leu-22.	His-1 to Thr-9.		Asn-1 to Lys-7,	Leu-27 to His-32,	Arg-34 to Pro-50.	Pro-4 to Arg-13,	Val-34 to Asp-40.	Ser-9 to Leu-20,	Thr-38 to Thr-44.	Leu-13 to Lys-21.						
2837	2838		2839					2840	2841	2842		2843			2844		2845		2846		2847			2848	2849
91 - 204	90 - 353		3 - 176					132 - 257	3 - 113	1 - 75		73 - 309	•		284 - 583		2 - 154		250 - 360		3 - 167			105 - 284	3 - 260
150	151		152					153	154	155		156			157		158		159		160		,	161	162
509456	557149		888726					509002	509452	586843		518331			925146		208706		208694		926914		1	9687/1	884083
HEPAA44	HEPAB70		HEPAD09					HEPAD40	HEPAD82	HEPAJ70		HEPAK01			HEPAK41		HEPAM29		HEPAN19		HEPAP02		O'S CALL	HEPAP12	HEPAS44

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and L0532: 1.	AR061: 44, AR089: 13	H0150: 10, H0549: 5,	H0176: 1, L0790: 1 and	L0779: 1.	H0150: 3	H0150: 4	H0150: 2	H0150: 2 and L0717:		H0150: 2, L0809: 1,	L0731: 1 and L0758: 1.	H0150: 2	H0150: 3	H0150: 5	H0150: 2	AR050: 7, AR054: 1	H0150: 3	H0150: 2	H0549: 2 and H0150:	2.	H0150: 2 and H0165:	<u> </u>	H0150: 2	H0150: 2	AR051: 15, AR054: 2,	AR050: 0	H0150: 4, H0038: 3,	L0758: 3 and L0779: 2.
	His-1 to Met-10.							Asp-15 to Gly-21,	Gln-32 to Lys-45.	Glu-7 to Gln-12.					Pro-4 to Ser-12.	His-25 to Ile-31.		Ala-1 to Asp-7.	Pro-12 to Gly-22.		Asp-18 to Thr-28.	-						Thr-112 to Thr-118, I
	2850				2851	2852	2853	2854		2855		2856	2857	2858	2859	2860		2861	2862		2863		2864	2865	2866			
	3 - 518				42 - 179	72 - 323	4 - 204	92 - 259		171 - 290		99 - 257	193 - 312	112 - 216	91 - 291	272 - 460		123 - 296	2 - 445		37 - 297		2 - 121	19 - 117	227 - 685			
	163				164	165	166	167		168		169	170	171	172	173		174	175		176		177	178	179			
	919875				508684	855597	967921	208686		508673		707524	508696	888697	713836	888693		968665	715685		523670	1	529343	761094	947081			
	HEPBA39				HEPBB24	HEPBB60	HEPBG26	HEPBG35		HEPBH28		HEPBH38	HEPBH45	HEPBO69	HEPBQ47	HEPBQ69		HEPBS10	HEPBX43	7	HEPCD36	\dashv	7	HEPCO59	HEPCT32			

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	,				108962,	120940,	217050, 217050,	217070,	245050,	600837,	600946,	600946				
					5p13								7			
	AR051: 9, AR054: 8, AR050: 1, AR061: 0, AR089: 0 H0150: 2, H0270: 1, H0032: 1 H0212: 1 and	L0779: 1.		AR089: 1, AR061: 0 H0544: 1 and H0435: 1.	H0544: 1 and H0038:	_						•	H0544: 2		H0544: 2 and L0748:	H0544: 1 and H0038:
Ala-139 to Arg-147.	Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.	Arg-57 to Arg-64,	Arg-100 to Arg-116, Gln-128 to Pro-135.	Pro-11 to Gly-16, Gln-37 to Gln-43.									Ser-3 to Phe-65, Glu-78 to Ala-91.	Ala-95 to Ser-116.		Pro-1 to Glu-15, Pro-29 to Val-35
	2867	5339		2868	2869								2870		2871	2872
	448 - 975	345 - 872	_	2 - 160	1 - 186		1						86 - 436		10 - 180	80 - 529
	180	2652		181	182			-					183		184	185
	931824	946975		911438	069669								769973		727051	712243
	HEPCU32			HEQAE65	HEQAH70		······································						HEQAO76		HEQAZ52	HEQBA41

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H0046: 2	H0046: 3	H0046: 2 and L0748:	2.	H0046: 2	H0046: 3		-		H0046: 6	H0046: 4	H0046: 2	H0046: 2	H0046: 4	H0046: 3	H0046: 5			H0046: 3		H0046: 3	H0046: 58 and H0616:	H0046: 1 and S0004: 1.	H0046: 2	H0046: 2	H0046: 3		H0046: 2 and L0741:
Asn-13 to Cys-19.	Pro-22 to Gln-32.	Lys-1 to Val-24,	Val-2/ to Leu-32.		Asn-1 to Gly-13,	Val-23 to Ser-28,	Ala-52 to Thr-63,	Asp-75 to Thr-80.	Lys-14 to Pro-22.		Ser-20 to Pro-25.			Gln-15 to Ser-21.	Pro-13 to Gln-22,	Arg-24 to Cys-30,	Thr-35 to Lys-40.	Ile-18 to Gln-23,	Ser-36 to Ser-41.			Arg-35 to Glu-40.			Asp-11 to Gln-18,	Pro-38 to Ser-43.	Phe-1 to Ser-6,
2873	2874	2875		2876	2877				2878	2879	2880	2881	2882	2883	2884			2885		2886	2887	2888	2889	2890	2891		2892
3 - 89	61 - 273	63 - 362		3 - 248	1 - 348				161 - 364	128 - 226	3 - 164	3 - 290	2 - 202	162 - 305	17 - 136			2 - 313		1 - 162	634 - 801	156 - 275	33 - 203	1 - 138	81 - 257		3 - 311
186	187	188		189	190				191	192	193	194	195	196	197			198		199	700	201	202	203	204		205
509311	509308	209306		509300	942612				299662	535390	508994	518156	535359	509118	960392			68836		934444	918730	536192	509189	508655	720853		509099
HETAD29	HETAF20	HETAF49			HETAH16				HETAH66	HETAH67	HETAJ26	HETAK75	HETAN20	HETAP59	HETAP94			HETAR06		HETAR60	HETAT83	HETAZ13	HETBA01	HETBF45	HETBH48		HETBR25

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1.	H0046: 2	H0046: 5, L0748: 2 and L0527: 1.	H0046: 3 and L0748: 1.	H0046: 68, S0013: 2, H0369: 1 H0431: 1	H0013: 1, H0156: 1 and	S0014: 1.				H0046: 2	H0046: 2	H0046: 2 and H0648:	1	H0046: 3	H0046: 1 and H0615: 1.	H0046: 3 and L0617:	1.		•			
Arg-26 to Lys-31, Arg-54 to Ser-59.	Thr-3 to Thr-9, Ala-24 to Cvs-29.		Gly-20 to Gly-27.	Asn-1 to Ile-20, Tvr-29 to I vs-41	Thr-68 to Gln-74,	Asp-88 to Tyr-101,	Lys-108 to Cys-116,	Thr-136 to Thr-145, Thr-158 to Cvs-171.	Ser-183 to Pro-188.	•	Ala-32 to Pro-57.	Thr-56 to Pro-62,	Asp-76 to Gly-81.	His-3 to Asn-10.	Lys-25 to Asn-35.	Tyr-1 to Ala-9.						
	2893	2894	2895	2896					!	2897	2898	2899		2900	2901	2902						
	3 - 125	354 - 647	143 - 307	542 - 1249						121 - 204	31 - 201	119 - 361		149 - 283	107 - 364	54 - 398						
	206	207	208	209						210	211	212		213	214	215				-		
	523046	971505	999805	841924						921390	522829	525412		509110	883018	855509		_				
	HETBW39	HETCE12	HETCE55	HETCG63						HETCH92	HETCL55	HETDA81		HETDD18	HETDE67	HETDE86						

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					1				Xq26.1															
H0046: 10 and S0152: 1.	H0046: 2	H0046: 2	H0046: 2	H0031: 2 and H0046:	H0046: 2 and L0756:	1. H0046: 2	H0046: 9	H0046: 5	H0046: 2				,	•				•			H0046: 3			H0046: 5 and L0665:
	Asn-1 to Arg-14.		Leu-1 to Ser-6.				His-7 to Thr-22.	Arg-1 to Ile-29.	Asn-8 to Trp-15,	Leu-20 to Ser-32.			•					•	,		Asn-1 to Asp-10,	Asp-25 to Gly-30,	trap to trap-ou.	
2903	2904	2905	2906	2907	2908	2909	2910	2911	2912												2913			2914
446 - 652	1 - 159	146 - 274	131 - 235	116 - 295	191 - 397	180 - 281	39 - 248	1 - 273	189 - 359							-					195 - 476			1 - 543
216	217	218	219	220	221	222	223	224	225									•			226		100	227
960870	925489	208690	695021	525407	660714	827093	917400	952297	529591												523112	_	0.000	799658
HETDG67 960870	HETDI03	HETDL92	HETDN90	HETDP21	HETDT15	HETDW59	HETEB68	HETEQ16	HETEZ43												HETFA40		COCUMENT	HETFC82

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H0046: 14	H0046: 3, H0618: 1,	.0036: 1 alid f10010: 1.	-			H0046: 53, H0616: 1	and L0664: 1.		_			_	,				H0046: 2	H0046: 2	H0046: 9			H0046: 2	H0046: 2	H0046: 2 and L0771:		AR050: 47, AR051:	46, AR054: 39, AR089:	4, AR061: 2	H0046: 4
	Ala-22 to Tyr-27,		Ala-82 to Gly-88,	Pro-97 to Gln-102,	Val-109 to Asp-117.	Arg-1 to Lys-6,	<u></u>	Leu-17 to Leu-24,	Gln-26 to Gln-46,	Ala-58 to Gln-63,	Gln-68 to Leu-74,	Lys-82 to Arg-95,	Glu-101 to Pro-107,	Leu-139 to Lys-147,	Glu-176 to Leu-186,	Arg-208 to Ile-215.	·	Gln-42 to Gly-48.		Gly-20 to Gly-40,	Gly-55 to Glu-69.		Gly-6 to Asn-21.			<u> </u>	<u>4</u>	4.	
2915	2916					2917											2918	2919	2920			2921	2922	2923		2924			
283 - 510	275 - 643					430 - 1149									,		66 - 239	208 - 405	688 - 339			2 - 127	1 - 63	2 - 154		3 - 581			
228	229					230											231	232	233			234	235	236		237			
974351	795274					954104	•					_					523398	973697	973702			527929	505383	523372		947978			
HETFE48	HETFG29					HETFI24											HETFI81	HETFL39	HETFM43			HETGH30	HETGI40	HETGL62		HETGL74			

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H0046: 2 and L0519: 2.	H0046: 2	H0046: 2	H0046: 9				H0046: 4	H0046: 4	H0046: 1, H0032: 1	and L0740: 1.	H0046: 5	AR089: 1, AR061: 0	H0046: 2			H0046: 3	H0046: 3	H0046: 3	H0046: 14	1	H0046: 2	H0046: 2	H0046: 3	H0046: 2	H0046: 18	H0046: 5 and L0766:	-
	Pro-4 to Lys-11.		Arg-1 to Pro-7,	Pro-13 to Ser-18,	Ala-51 to Ser-64,	Asn-92 to Lys-97.					Ser-12 to Val-20.	Pro-1 to Arg-7,	Thr-18 to Thr-29,	Arg-35 to Ser-50,	His-87 to Cys-92.		1	Ser-3 to Pro-10.	Ala-60 to Lys-67,	Gln-71 to Gly-76.	Glu-7 to Glu-12.	Ile-3 to His-12.		Arg-16 to Asn-21.	Pro-49 to Thr-57.	Pro-14 to Pro-19,	Cys-35 to Ser-40.
2925	2926	2927	2928				2929	2930	2931		2932	2933				2934	2935	2936	2937		2938	2939	2940	2941	2942	2943	
	23 - 190	11 - 109	151 - 441				101 - 259	490 - 639	90 - 428		475 - 660	24 - 461		١		302 - 439	47 - 223	262 - 411	1 - 363		1 - 135	81 - 245	458 - 646	62 - 166	252 - 503	3 - 215	
238	239	240	241				242	243	244		245	246				247	248	249	250		251	252	253	254	255	256	
927789	542486	969632	935175				974348	967737	745503		963592	851412				974555	966185	974359	166589		883991	764951	739804	935947	974558	909130	_
HETGN20	HETGQ76	HETGS09	HETHD30				HETHE56	HETHH49	HETHO63		HETHO78	HETHR24				HETHT53	HETIF01	HETIG71	HETIJ84		HETIJ85	HETIQ89	HETIU60	HETIY84	HETJD30	HETJD86	

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AR061: 4, AR089: 2 H0046: 2 and H0616:	L0375: 3, H0046: 2, L0774: 1 and L0789: 1.	H0046: 2	H0046: 2	H0046: 3	AR089: 4, AR061: 2	H0046: 1, H0032: 1,	H0040: 1 and L0565: 1.				H0046: 4 and L0774:	H0046: 3 and H0616:			H0046: 11	H0046: 3	H0046: 2			H0046: 17		H0046: 3		
Val-10 to Asp-15.		Ser-1 to Thr-7.		Lys-8 to Thr-23.	Asp-11 to Val-21,	Pro-27 to Thr-43,	Trp-92 to Lys-97,	Pro-136 to Gly-149,	Met-182 to Val-193,	Thr-197 to Asn-203.		Val-50 to Arg-63,	Asp-75 to Trp-89,	Pro-92 to Arg-98.		,	Pro-1 to Gly-14,	Gly-17 to Ser- <u>7</u> 3,	Ser-25 to Arg-34.	Ser-12 to Arg-18,	Gln-69 to Met-74.	Leu-33 to His-38,	Pro-56 to Glu-61,	Pro-111 to Leu-117.
2944	2945	2946	2947	2948	2949						2950	2951			2952	2953	2954			2955		2956		
94 - 462	262 - 552	173 - 433	26 - 274	222 - 413	3 - 704			•			254 - 481	3 - 308			321 - 527	20 - 226	1 - 210			31 - 267		3 - 353		
257	258	259	260	261	262						263	264			265	266	267			268		269		
950017	806435	751072	767932	789310	927120						966194	894600			974355	915320	790910			974362		855449		
HETJG63	HETJI32	HETJK67	HETJN51	HETJT95	HETJX04						HETJY11	HETKA38			HETKG67	HETKH01	HETKH92		-	HETKM55	Т	HETKQ65		

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AR061: 1, AR089: 0 H0046: 2	H0046: 2	H0046: 2	H0046: 6 and H0616:	110046.3	H0046: 2	H0046: 3			H0545: 2	H0545: 2	H0545: 2, L0766: 1,	L0775: 1, L0383: 1,	L0742: 1 and L0747: 1.	H0618: 6, L0758: 3,	H0484: 1, H0255: 1,	H0549: 1, H0253: 1,	H0616: 1, L0794: 1,	L0774: 1 and L0779: 1.	H0553: 2	H0553: 2, L0441: 1	and H0672: 1.	L0754: 20, L0748: 10,	L0749: 10, H0553: 8,	L0755: 8, H0031: 7,	H0644: 6, H0030: 2,	L0142: 1, L0771: 1,	L0759: 1 and H0008: 1.
Asp-12 to Trp-20.	Leu-22 to Arg-28.	Gln-1 to Glu-20.	Glu-1 to Gly-6,	C. 72 to A 27 27	Cys-22 to Asp-27.	His-1 to Leu-8,	Lys-10 to Leu-17,	Met-44 to Cys-49.			Asp-53 to Gln-59,	Asp-122 to Leu-128.		Arg-11 to Ser-19.	,				Tyr-23 to Ser-30.	Asn-34 to Leu-40.		Ser-84 to Ile-92,	Glu-104 to Gly-111.				
2957	2958	2959	2960	2061	1967	2962			2963	2964	2965			2966					2967	2968		5963					
2 - 664	150 - 254	3 - 620	518 - 1333	7 250	7 - 250	111 - 314			3 - 305	39 - 335	610 - 155			103 - 252					167 - 367	146 - 295		588 - 989					
270	271	272	273	27.4	4/7	275			276	277	278			279					280	281		282					
910030	789797	941045	920894	786.159	/ 00420	974361			957079	919847	858254			675752					856552	958554		964389					
HETKV26 910030	HETKX91	HETKZ65	HETLB04	HETT H80		HETLM46			HJMAE34	HJMAZ84	HJMBT23			HLMNG77 675752					HLWAB50	HLWAD08	ŀ	HLWAG51					

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AR061: 2, AR089: 2 L0748: 6, L0752: 5, H0553: 2, L0754: 2, L0749: 1 and L0780: 1.		L0754: 2, H0553: 1, H0670: 1 and L0749: 1.	H0553: 2	H0553: 1, H0435: 1 and L0748: 1.	H0553: 2, L0536: 2, L0754: 2 and H0030: 1.	AR050: 21. AR054: 9		AR061: 1	H0553: 4 and L0759:	2.		,	H0553.2 H0030.1	and L0755: 1.		H0553: 2	H0553: 2	H0553: 2, L0005: 1, L0143: 1, L0749: 1 and
Arg-9 to Val-17, Pro-25 to Gly-30.	Gly-1 to Ser-6, Phe-12 to Trp-25, Ala-31 to Gly-42, Met-44 to Gln-49.			Asn-12 to Ala-18, Gly-61 to Ser-70.		Gln-97 to Pro-114.	Trp-117 to Lys-129,	Thr-166 to Gln-173,	Ser-178 to Lys-183,	Glu-250 to Phe-256,	Ser-295 to His-301,	Tyr-307 to Gln-316,	Ser-20 to Glv-27	Gln-29 to Arg-41,	Ser-46 to Pro-53.	Arg-112 to Ser-117.		Lys-28 to Arg-39.
2970	5340	2971	2972	2973	2974	2975							2976			2977	2978	2979
13 - 771	687 - 286	158 - 376	381 - 145	118 - 333	330 - 175	1287292							430 - 2			4 - 390	192 - 350	1 - 192
283	2653	284	285	286	287	288							289			290	291	292
944774	948953	920690	746460	694216	715727	947484							723330			666273	962996	677944
HLWAH41		HLWAI13	HLWAJ64	HLWAK69	HLWAK94	HLWAR77							HLWAR78			HLWAU18		HLWBA25

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L0755: 1.	H0553: 2	H0030: 1 and H0553: 1.	H0553: 2	H0553: 3	L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0328: 2 and H0553:	1.	AR089: 1, AR061: 0	H0553: 2	H0553: 3	H0328: 1 and H0553:	1.	H0553: 2	H0030: 1, H0553: 1	and L0754: 1.	H0031: 2, L0754: 2,	H0553: 1, L0743: 1,	L0748: 1 and L0747: 1.		
	Val-2 to Pro-8, Arg-21 to Trp-29, Thr-41 to Arg-50.	Leu-6 to Gln-11, Arg-46 to Asp-52, Glu-68 to Pro-73.	Ala-3 to Trp-10.		Arg-11 to His-20,	Pro-23 to Gly-31.				Gly-1 to Glu-6,	Val-8 to Tyr-16.	Lys-1 to Lys-41,	Pro-75 to Ser-86.	Met-36 to Lys-41.	Ala-37 to Glu-48.	27 10 12	Glu-5 / to Gly-66.	Asn-7 to Cys-15.		Pro-26 to Ser-39,	Ile-66 to Ser-78,	Lys-84 to Pro-105,	Pro-171 to Pro-181,	Arg-194 to Ala-199.
	2980	2981	2982	2983	2984					2985		2986		2987	2988	0000	6867	2990		2991				
	1 - 150	252 - 1	90 - 380	78 - 224	847 - 1062					119 - 199	4 :	3 - 263		109 - 279	272 - 48	820 0	807 - 7	184 - 2		114 - 848				
	293	294	295	296	297			•	j	298		299		300	301	200	302	303		304			•	
	934562	791362	919639	711000	713600					529323		782938		703465	925300	371175	C/1+//	679215		577929				
	HLWBE31	HLWBE92	HLWBJ02	HLWBK40	HLWBN49					HLWBO68		HLWBQ84		HLWBQ86	HLWBS14	LII WDC43	nLwb343	HLWBZ74		HLWCA67				

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	3p24-p22						<u> </u>						i	ı															-	
H0553: 2	H0553: 2				···			1				H0553: 2			H0553: 2 and L0754:	1.	H0615: 3, H0553: 2,	L0756: 2 and L0758: 2.	H0553: 2, L0656: 1,	L0659: 1, L0666: 1,	L0664: 1 and L0748: 1.	H0553: 2	•	H0553: 2, H0038: 1,	L0764: 1, L0794: 1 and	L0438: 1.			H0553: 2	H0553: 2
Ala-17 to Thr-24.												Gln-16 to Met-21,	Val-25 to Lys-33,	Ala-40 to Arg-46.	Ser-11 to Gly-17.		Pro-10 to Lys-16.					Ile-31 to Ser-40,	Arg-115 to Gly-122.	Ser-21 to Glu-27,	Gln-50 to Pro-59,	Gln-61 to Ser-66,	Thr-68 to Pro-74,	Pro-77 to Gln-84.	-	Tyr-8 to Arg-14, Asn-40 to His-46,
2992	2993											2994			2995		2996		2997			2998		2999		•			3000	3001
57 - 314	207 - 329								١			71 - 208	,		160 - 348		329 - 114		2 - 154			2 - 463		1 - 702					3 - 149	148 - 426
305	306											307			308		309		310			311		312					313	314
727699	926850											750779			869700		742778		768018			913768		696062					953283	868276
HLWCM44	HLWCM70 926850									1		HLWCO66 750779			HLWCQ53		HLWCQ62 742778		HLWCQ76			HLWDA01		HLWDB18					_	HLWDE60

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	H0553: 2	H0553: 2	AR054: 2, AR051: 1,	AR089: 1, AR050: 1,	AR061: 0	H0651: 59, L0751: 5,	.0438: 4, L0774: 3,	.0439: 3, L0748: 2,	.0779: 2, L0752: 2,	.0755: 2, L0595: 2,	H0295: 1, H0009: 1,	F0010: 1, H0553: 1,	H0617: 1, H0163: 1,	H0102: 1, H0494: 1,	.0770: 1, L0662: 1,	.0375: 1, L0806: 1,	.0776: 1, L0657: 1,	.0659: 1, L0792: 1,	.0666: 1, L0663: 1,	.0664: 1, L0665: 1,	.0352: 1, H0648: 1,	.0740: 1, L0749: 1,	.0757: 1, L0361: 1,	.0603: 1 and S0042: 1.	H0553: 2		H0651: 29 and S0212:		H0662: 2, H0670: 1,
Val-56 to Thr-62.	Pro-1 to Gly-12.	Thr-18 to Met-25.	Pro-4 to Pro-18,	Gly-81 to Pro-87,		Gln-127 to Gly-143,				<u></u>	<u> </u>		<u>14</u>	<u> </u>			<u>.</u>	1	<u>H</u>	<u></u> ,		<u> </u>	<u></u>	1		Ser-30 to Ser-37.		Cys-77 to Ser-85.	
	3002	3003	3004																						3005		3006		3007
	1 - 51	2 - 157	1 - 558				1				•														1 - 402		2 - 289		3 - 512
	315	316	317																						318		319		320
	759843	973315	929647																						826488		957804		914428
	HLWDL71	HLWEE76	HLWFG82					,																	HLWFQ04 856488		HMVDU41		HNBIP01

103050,	124030,	138981,	1.82380,	188826,	190040,	190040,	190040									,				-								
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L0756: 1 and L0759: 1.								H0662: 2			H0662: 2	H0662: 2	H0662: 2		H0651: 177, L0794: 5,	,0766: 5, H0657: 3,	.0526: 2, L0666: 2,	,0664: 2, L0744: 2,	L0759: 2, S0212: 1,	0360: 1, H0587: 1,	H0052: 1, H0050: 1,	10266: 1, H0428: 1,	[0551: 1, H0412: 1,	0475: 1, H0646: 1.	L0761: 1, L0662: 1,	0803: 1, L0805: 1,	0809: 1, L0665: 1,	S0052: 1, S0374: 1,
									Thr-42 to Ser-47,	Pro-52 to Trp-59.			Lys-8 to Asn-14,	<u> </u>		고	<u>.</u> ,	ㅂ	7	<u> </u>	프	E	<u> </u>	<u> </u>	<u> </u>	Ħ	<u>.</u>	SC
								3008			3009	3010	3011		3012													
1								3 - 194			52 - 339	209 - 472	203 - 412	-	300 - 115		_											
								321			322	323	324		325													
								965424			965428	933672	951814		958685													
								HNBTT79			HNBTX52		HNBUR07		HNGAO08													_

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	-	118800,	123660,	125660,	125660,	193500,	193500,	193500,	193500,	201460,	205100,	237300,	262000,	600266,	601277		118800,	123660,	125660,	125660,	193500,	193500,	193500,
	t-1	,q35	, ,	,		1											2q35				·		
H0690: 1, H0659: 1, H0648: 1, H0521: 1, L0786: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, H0543: 1 and S0424: 1.		AR054: 7, AR050: 1, 2q35	AR051: 0	H0678: 47, L0748: 12,	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	L0740: 4, L0749: 4,	L0759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,	H0674: 1, H0616: 1,	H0646: 1, L0770: 1,	L0769: 1, L0646: 1,	L0765: 1, L0773: 1,	L0777: 1, L0731: 1 and	L0596: 1.	12,	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	L0740: 4, L0749: 4,	L0759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,
	Ile-1 to Asp-7, Asn-39 to Pro-46.	Glu-15 to Asp-21,	His-32 to His-45,	Gly-55 to Lys-64,	Gly-81 to Ser-88.					,							Glu-15 to Asp-21,	His-32 to His-45.		-	7		<u> </u>
	5341	3013										•					3014						
·	81 - 284	340 - 696			•												320 - 520						
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	959068	917723										•					917724						
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193500, 201460, 205100, 237300, 262000, 600266,	118800, 123660, 125660, 125660, 193500, 193500, 193500, 201460, 205100, 237300, 260266,			
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H0674: 1, H0616: 1, H0646: 1, L0770: 1, L0769: 1, L0646: 1, L0765: 1, L0773: 1, L0777: 1, L0731: 1 and L0596: 1.	H0678: 2	H0618: 3, L0758: 3, L0794: 2, L0748: 2, L0779: 2, L0755: 2, L0731: 2, L0770: 1, H0651: 1 and L0603: 1.	H0651: 8, L0744: 2, L0598: 1 and L0756: 1.	H0651: 154, L0731: 9, L0777: 6, L0803: 4,
		Asp-28 to Ala-37, Arg-49 to Gly-58, Ala-63 to Asn-69.	Pro-76 to Cys-88.	Ala-2 to Lys-10, Glu-70 to Gln-76.
	3015	3016	3017	3018
	771 - 1019	525 - 752	231 - 524	101 - 475
	328	329	330	331
	917725	933730	969363	927903
	HNNNA77	HNOAS06		HNOBF57

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L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	H0659: 1, H0658: 1,	H0672: 1, S0328: 1,	H0539: 1, S0380: 1,	L0439: 1, L0779: 1,	L0594: 1, L0361: 1,	S0026: 1, S0242: 1 and	S0460: 1.	H0651: 6	H0651: 3
																			,			_		•					Asn-18 to Lys-23.
																												3019	3020
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H0651-2	H0660: 2		170660.3	H0000: 2	H0328- 2 and H0615-	2.	H0328: 2	H0328: 2 and L0534:	1.	H0328: 1 and H0615:	1.	H0328: 2	H0328: 2		L0777: 4, H0328: 2,	L0756: 2 and L0803: 1.	H0328: 2	H0328: 2		H0328: 2	H0328: 2	H0546: 1, H0328: 1,	L0779: 1 and L0361: 1.	H0328: 3		H0328: 2	H0328: 2
	Asp-9 to Lys-20,	Ser-25 to Glu-30, Pro-57 to Asn-63	110 07 10 11011 00.	Glv. 42 to His. 47	or) 12 to 1113 -11.		Water and the second se						Pro-10 to Cys-27,	Gln-41 to Arg-48.			Thr-3 to Lys-12.	Arg-15 to Thr-21,	Ser-38 to Glu-44.			Thr-6 to Asp-14.		Gly-2 to Arg-10,	Ile-27 to Pro-33.	Arg-27 to Trp-33.	Cys-14 to Pro-20.
3021	3022		3003	302	3025		3026	3027		3028		3029	3030		3031		3032	3033		3034	3035	3036		3037		3038	3039
536 - 745	8 - 220		3-185	91 - 231	280 - 426		48 - 236	70 - 300		46 - 321		76 - 216	108 - 311	,	147 - 398		3 - 161	21 - 158		85 - 300	227 - 328	142 - 297		166 - 303		158 - 331	18 - 116
334	335		336	337	338		339	340		341		342	343		344		345	346		347	348	349		350		351	352
957833	922418	,	917484	973463	974043		529410	859509		921666	20,000	229405	529404		960179		529401	529402		859519	692684	775425		921662		934101	921655
HNOCU05 957833	HOCMU03		HOCPJ03	HODAD73	HODAD95		HODAG37	HODAH32		HODAJ01	717	HUDAJ33	HODAK38	- 1	HODAK95		\neg	HODAT56	一十	_		HODAW84	7	HODBC01	╅		HODBE01

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H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 1, H0059: 1	and L0596: 1.	H0328: 2	H0328: 2		H0328: 1 and H0038:	<u> </u>	H0328: 2	H0328: 2	H0328: 2	H0328: 2 and L0749:	2.	H0328: 2	_	H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0328: 2		H0328: 2	H0328: 1 and H0615:
Glu-23 to His-30,	Leu-41 to Asp-53.	Lys-13 to Gln-21.	Ser-39 to Arg-45.	Glu-10 to Ala-17.	Ser-22 to Val-41.			Leu-20 to Arg-25,	Ser-47 to Gly-53.	Glu-35 to Ile-40,	Pro-73 to Gln-79.	Glu-1 to Thr-10.	Gln-44 to Thr-51.	Tyr-16 to Thr-22.			Gln-1 to Ser-7,	Arg-15 to Gly-21.	Lys-27 to Leu-32, Asp-49 to Asp-56				Leu-1 to Lys-14.	Pro-14 to Ile-20,	Pro-23 to Pro-28.	Arg-1 to Pro-12.	Gly-8 to Thr-22.
3040		3041	3042	3043	3044		3045	3046		3047		3048	3049	3050	3051		3052		3053	3054	3055	3056	3057	3058		3059	3060
3 - 299	1	1 - 168	2 - 166	59 - 280	71 - 343		1 - 180	2 - 184		2 - 286		1 - 123	20 - 175	39 - 242	1 - 222		87 - 275		1 - 168	2-196	162 - 335	3 - 185	122 - 325	127 - 234		15 - 203	313 - 477
353		354	355	356	357		358	359		360	·	361	362	363	364		365		366	367	368	369	370	371		372	373
927781		859559	678444	529329	761447		967732	529400		932218		529327	967320	932638	529334		829226		573202	573200	573195	507249	529332	954149		917270	920698
HODBH16 927781		HODBO85	HODBT58	HODBU95	HODBV71		HODCA11	HODCA68		HODCD05		НОДСН64	HODCJ11	HODCJ42	HODCL88		HODCM62		НООСО09	HODCO46	НООСО82		\neg	HODCT07			HODCU02

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1.	H0328: 2	H0328: 3	H0328: 2	H0328: 2	H0328: 2	H0328: 1 and H0615:	-	H0328: 2				H0328: 2 and H0615:	1.	H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0038: 2, H0328: 1	and H0616: 1.			H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0328: 2	H0328: 1, H0615: 1	and L0758: 1.	H0615: 2 and H0328: 1.
	Arg-5 to Cys-11.	Lys-7 to Glu-12.	Lys-37 to Ser-43.	Pro-49 to His-59.		Glu-21 to Glu-37.		Ala-8 to Ala-13,	Ile-17 to Gln-26,	Phe-52 to Asn-64,	Asp-72 to Lys-77.	Gln-14 to Leu-22,	Lys-25 to Lys-35.			-	Val-26 to Lys-38,	Lys-47 to Lys-53,	Lys-60 to Leu-65,	Ser-80 to Ile-90.	Leu-16 to Arg-30.	-			Arg-10 to Arg-17,	Ser-24 to Lys-30.	
	3061	3062	3063	3064	3065	3066		3067				3068		3069	3070		3071				3072	3073		3074	3075		3076
	207 - 323	382 - 591	156 - 284	80 - 280	82 - 273	56 - 166	1	3 - 305				137 - 277		1 - 240	127 - 468		18 - 329				58 - 147	387 - 566		83 - 286	385 - 615		391 - 660
	374	375	376	377	378	379		380				381		382	383		384				385	386		387	388		389
	524314	973487	960051	575256	859580	933726	0000	229390				529169		937759	806204		742217				523270	780472		859516	859518		975437
	HODCU62	HODCV09	HODCW17	HODCW37		НОБББ20	TOPPE 11	HODDD41				HODDE28		HODDF51	HODDG57		HODDH52					HODDM25		HODDM78	HODDN40	_	HODDN59

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AR054: 28, AR050:	22, AR051: 13	H0328: 1, H0674: 1	and L0754: 1.	H0328: 2	H0615: 2 and H0328:	1.		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 3	,	H0615: 2	L0776: 2, L0740: 2,	H0484: 1, H0615: 1,	L0809: 1, L0748: 1,	L0750: 1, L0779: 1 and	L0752: 1.	H0615: 2	H0615: 3	H0615: 3	H0615: 2		H0615: 3
					Tyr-11 to Gln-16,	Ala-24 to Ala-32,	Pro-36 to Ser-41.			Gly-1 to Pro-7.	Leu-9 to Gln-20.				Ile-12 to Thr-20,	Tyr-47 to Gly-57.	Thr-34 to Ser-40.	Gln-3 to Arg-14,	Pro-30 to Thr-36.	•	1	_				Pro-3 to Thr-10,	Ser-38 to Pro-47.	
3077				3078	3079			3080	3081	3082	3083	3084	3085	3086	3087		3088	3089					3090	3091	3092	3093		3094
60 - 371				101 - 283	3 - 359		1	48 - 152	171 - 338	1 - 357	126 - 275	391 - 534	1 - 282	350 - 514	42 - 218		24 - 296	23 - 421					235 - 480	27 - 266	373 - 648	2 - 142		101 - 295
390				391	392			393	394.	395	396	397	398	399	400		401	402					403	404	405	406		407
891236				920962	919295			529640	267197	529290	531209	782242	927022	952204	966085		859368	912909					963494	974342	784833	963895		974329
HODDN93					норро21			HODDR13	HODDS67	HODDU70	HODDX35	HODEA90	HODEB04	HODEC76	HODED11		HODED55	HODED87					HODEF10	HODEF87	HODEG86	НОВЕН08	$\neg \neg$	НОВЕН22

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H0615: 3	H0615: 3	H0615: 3		H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2	AR061: 4, AR089: 2	H0651: 709, L0766: 5,	L0754: 5, L0756: 3,	L0803: 2, L0779: 2,	L0777: 2, L0759: 2,	S0354: 1, H0643: 1,	H0013: 1, H0194: 1,	H0545: 1, H0373: 1,	H0252: 1, H0615: 1,	H0316: 1, H0040: 1,	H0641: 1, H0647: 1,	S0422: 1, L0598: 1,	L0369: 1, L0520: 1,	L0762: 1, L0649: 1,	L0804: 1, L0527: 1,	L0656: 1, H0144: 1,	H0702: 1, H0547: 1,
Ile-9 to Cys-14, Pro-22 to Glv-27	Lys-1 to Ser-10.	Ser-25 to Pro-30,	PTO-84 TO GIU-92.			Val-9 to Val-15.				Thr-1 to Ser-13.		Phe-28 to Thr-33,	Ile-44 to Thr-54,	Arg-78 to Lys-88,	Gln-99 to Lys-106.					•								
3095	3096	3097	0000	3098	3099	3100	3101	3102	3103	3104	3105	3106																
66 - 227	511 - 633	363 - 740	100	45 - 188	312 - 458	1 - 159 -	69 - 569	115 - 381	215 - 364	206 - 331	246 - 479	1 - 351	•								-		-	-				
408	409	410	411	411	412	413	414	415	416	417	418	419								,						•		
829318	841906	859307	050212	829313	772940	930735	926984	965534	784846	972808	859287	789661																
HODEI13	HODEI48	HODEK50	HODELOS	HODEL92			HODEP04		HODEP86	норео28	норео79	HODER91																

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H0555.1 H0436.1	S0028: 1, L0746: 1,	L0750: 1, L0780: 1,	L0752: 1 and L0686: 1.	L0753: 3, H0615: 1	and H0683: 1.	H0615: 2	H0615: 2	AR061: 6, AR089: 3	H0615: 5	H0615: 2	H0615: 2		H0615: 2	H0615: 2	H0615-2 and H0328-	1.	H0615: 2	H0615: 3 and L0367:		1.00	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615·2	H0615.2	H0615: 2	
						Val-36 to Gly-42.	Asn-37 to Lys-42.		٠.			Thr-34 to Asn-43.		Gln-36 to Gly-41.	Leu-27 to IIe-33.	Trp-43 to Gln-48.		Ser-9 to Gly-15,	Pro-22 to Lys-27,	Glu-43 to Glu-56.		Thr-1 to Ser-16.					Arg-46 to Ser-57.	Thr-67 to Cys-78.
				3107		3108	3109	3110		3111	3112		3113	3114	3115	-	3116	3117			3118	3119	3120	3121	3122	3123	3124	
	1			3 - 278		27 - 191	433 - 639	22 - 159		129 - 524	425 - 667		179 - 382	432 - 677	37 - 207		178 - 336	170 - 397			451 - 639	2 - 217	449 - 634	133 - 270	325 - 465	169 - 399	2 - 301	
				420		421	422	423		424	425		426	427	428		429	430			431	432	433	-434	435	436	437	
			7,070	/84815		922988	859302	926260		922473	972984		859323	829296	918672		952166	934266	-		929733	972810	792979	958371	963516	780531	856338	
			7000 CTT	HODES86		HODET03	HODEV13	HODEX10		HODEX31	HODEY08		HODEY13	HODEY80	HODEZ02		HODEZ11	HODFA38			HODFB05	HODFB57	HODFB88	HODFD08	HODFD10	HODFD45	HODFE69	

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															-						·	
H0615: 2	H0615: 3	H0615: 2	H0328: 1 and H0615:	H0615: 5 and L0665:	H0615: 3	H0615: 2	H0615: 2	H0328: 1 and H0615:	H0615: 3 and H0328:	7.	H0615: 2	H0328: 1, H0615: 1,	L0775: 1, H0648: 1 and L0758: 1.	H0615: 3	1	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2 and L0558:		
	Gln-15 to Ser-23, Gly-30 to Lys-36.	Lys-32 to Ser-37.		Ala-14 to Ser-38.	Ser-7 to Lys-15, Val-17 to Pro-29.	Pro-45 to Cys-51.			Asp-1 to Asp-7.	E	Trp-44 to Thr-54.	Tyr-4 to Thr-11,	Inr-15 to Asp-20, Arg-29 to Leu-42.	Tyr-1 to Cys-14,	Gln-20 to Ile-47.	Thr-1 to Asn-6.	•		Thr-1 to Ser-6.	Glu-1 to His-6,	Phe-13 to Pro-23,	Arg-29 to Leu-34,
3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	0.00	3135	3136		3137	- 1	3138	3139	3140	3141	3142		
263 - 433	33 - 164	143 - 391	247 - 501	44 - 343	42 - 182	1 - 159	198 - 425	79 - 318	124 - 309	700	85 - 306	587 - 817		427 - 615		258 - 401	224 - 51	204 - 398	460 - 588	274 - 582		
438	439	440	441	442	443	444	445	446	447	440	448	449		450		451	452	453	454	455		
782219	915257	783783	859549	974313	974318	918456	859334	921529	859329	050217	829314	921651	_	918637		934304	915232	918536	934229	806232		
HODFG37	НОДЕН02	HODFH76	HODFJ01	HODFK18	HODFK94	HODFL91	HODFN19	HODFN42	HODFO03	TODEOT	HODFU3/	HODFP40		НОБРО02		HODFQ06	HODFT52		HODFU06	HODFU47		

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		H0615: 2	H0615: 2	H0615: 3	AR061: 6, AR089: 3	H0615: 2 and L0766:	1.	H0615: 3	H0615: 2 and H0169:	1.	H0615: 2	AR061: 8, AR089: 5	H0615: 3	H0615: 2		H0615: 2		H0615: 2		H0615: 2	H0615: 2	H0328: 1 and H0615:	1.	H0615: 2	H0615: 3		,	-
Pro-54 to Asp-60,	Pro-62 to Gly-67.			-							Glu-9 to Gln-21.	Thr-50 to Gln-57.		Ala-8 to Gln-29,	Ser-36 to Gly-44.	His-8 to Gly-18,	Leu-37 to Lys-42.	His-8 to Gly-18,	Gly-26 to Arg-33.			Arg-30 to Asn-35.	_	Arg-11 to Thr-29.	Ser-2 to Thr-13,	Ile-16 to Ser-26,	Pro-28 to Gln-36,	Gln-41 to Pro-47.
		3143	3144	3145	3146			3147	3148		3149	3150		3151		3152		3153		3154	3155	3156		3157	3158			
	•	60 - 134	370 - 603	1 - 183	163 - 309			393 - 259	45 - 209		83 - 214	43 - 324		1 - 147	1	28 - 285		10 - 159		178 - 330	383 - 556	91 - 333		1 - 267	3 - 353			
		456	457	458	459			460	461		462	463		464		465		466		467	468	469		470	471			
		965526	859322	975259	958329			975253	965104		926863	973449		931071		917969		926255		951933	965105	968794		958235	974297			
		HODFU54	HODFW17	HODFX57	HODFY16			HODFY79	HODFZ11		HODGC04	HODGC61	\neg	HODGD05		HODGH02		HODGH04		HODGH07	HODGH11	HODGH91		HODGI08	HODGJ67			

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H0615: 4 and H0328:	H0615: 3	H0615: 2	H0615: 3	H0615: 2	AR089: 8, AR061: 3	H0615: 2	H0615: 2	H0615: 3	H0615: 3				AR061: 5, AR089: 2	H0615: 2	H0615: 3	H0615: 2	H0615: 3	H0615: 2 and H0658:	1.	H0615: 2	H0615: 2	H0615: 2 and L0777:	1.	H0615: 3 and H0328:	11.	H0615: 2
Pro-25 to Ser-31.	Phe-81 to Phe-87.				Lys-38 to Arg-44,	Thr-84 to Asp-99.			Val-1 to Lys-7,	Gln-12 to Arg-18,	Arg-22 to Gln-30,	Gly-32 to Glu-40.	Asp-42 to Arg-47,	Gln-84 to Gly-91.	+	Ala-11 to Cys-16.			1			Pro-59 to Pro-65,	Glu-96 to Phe-113.	Ala-1 to Glu-12.	A 1 +- T 00	Asp-1 to Lys-20, Cys-34 to Ser-42.
3159	3160	3161	3162	3163	3164		3165	3166	3167	•			3168	-	3169	3170	3171	3172		3173	3174	3175		3176	2177	31//
402 - 698	2 - 304	292 - 525	67 - 228	3 - 236	23 - 358		261 - 377	117 - 245	175 - 405	,			2 - 274		253 - 402	183 - 371	206 - 310	138 - 257		315 - 479	3 - 119	3 - 341		132 - 278	100 384	150 - 304
472	473	474	475	476	477		478	479	480				481		482	483	484	485		486	487	488		489	400	470
859303	974051	883087	974293	296688	908650		958237	974290	974294				894368		974052	958277	963427	613879		933783	961977	922987		974924	506960	760402
HODGL54	HODGM46	HODGO46	HODGP37	HODGP83	HODGP95		HODGQ08	HODGQ22	HODGQ32				НОДСО92	- 1		HODGW08		HODGX29		T	\neg	НОДНС03	, ,	HODHD16	HODHG71	

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H0328: 1 and H0615:	H0328: 1 and H0615:	H0615: 2 and H0328:	H0615: 3	H0615: 3	H0615: 2, H0188: 1	and L0758: 1.	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 2 and L0060:	•	H0415: 1 and H0414:	H0415: 2 and H0414:	H0414: 2	H0415: 1 and H0414:		H0414: 2		H0415: 1 and H0414:	
Thr-14 to Arg-22,	Glu-33 to Lys-46.					8					Lys-30 to Arg-36.	Lys-8 to Ser-14.	His-20 to Val-35.	1	Ile-13 to Arg-20.		-	,	Pro-39 to Glu-56.	Glu-1 to Leu-8,	Arg-38 to Cys-49.		Arg-36 to Pro-42,
3178	3179	3180	3181	3182	3183		3184	3185	3186	3187	3188	3189	3190		3191	3192	3193	3194		3195		3196	
78 - 293	376 - 636	275 - 451	108 - 302	79-315	185 - 415		36 - 137	285 - 461	47 - 214	134 - 379	31 - 384	41 - 169	92 - 256		71 - 385	527 - 99	100 - 249	118 - 306		2 - 220		3 - 293	
491	492	493	494	495	496		497	498	499	200	501	502	503		504	505	506	507		208		509	
964935	952195	973423	918613	973433	847724		965529	965460	914554	922484	951404	965049	933320		659522	964113	573337	932211		772992		707359	
НОДНІН82	НОБНІ07	HODHI26	НОДНК02	HODHL19	HODHL56		НОДНО11	HODHS34	HODHY53	HODJR03	HODJY33	HODIZ90	HODKN07		HOFAA15	HOFAB40	HOFAB71	HOFAD05	7	HOFAE31		HOFAE61	

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											_	121011,	121011,	129500,	253700,	601885,	602221	106150,	106150,	145260,	173870,	173870,	600759,	,966009	601744,	601975	
												13q11-q12						1q42									
	H0414: 2	H0415: 2	AR089: 26, AR061: 10	H0415: 8 and H0414:	H0415: 2		H0415: 2	H0415: 2	H0415: 2		,	H0415: 2					-	AR089: 6, AR061: 3	H0415: 3	,							H0415: 3 and H0414:
Arg-57 to Cys-62.	Gly-30 to Gly-46.	Ser-2 to Arg-15.	Arg-10 to Lys-23.		Thr-7 to Gly-18,	Pro-20 to Gly-26.			Lys-36 to Ala-52,	Thr-54 to His-61,	Pro-90 to Thr-96.	Pro-31 to Arg-36,	Glu-41 to Gln-52.					Pro-1 to Pro-6,	Asp-41 to Arg-67,	Gly-100 to Val-106.		,					Arg-1 to Cys-16, Tyr-59 to Lys-68,
	3197	3198	3199		3200		3201	3202	3203			3204						3205									3206
	136 - 273	63 - 347	1 - 399		3 - 158		232 - 405	55 - 264	3 - 446			1 - 387		ł			100	66 - 497									2 - 478
	510	511	512		513		514	515	919			517						218									519
	868887	782275	572941		572839		916959	867993	924679			734917					07000	805516									964722
	HOFAF84	HOFMA24	HOFMB78		HOFMB83		HOFMD13	HOFME41	HOFMF03			HOFMF70					1	HOFMG21									HOFMH12

	AR089: 5, AR061: 3 H0415: 1 and H0414:	H0415: 3	H0415: 2	H0415: 8 and H0414: 2.	H0415; 2	AR089: 30, AR061: 10 H0415: 1 and H0414:	H0415: 2	H0415: 5 and H0414:	H0415: 2	H0415: 2	H0415: 2			AR089: 11, AR061: 3 H0415: 2
Glu-76 to Arg-82.	Ser-85 to Gly-100, Pro-102 to Ser-113.	Val-15 to Ala-22, Val-26 to Gly-38, Gln-65 to Gly-70.	Cys-2 to Gly-7, Ala-14 to Pro-20.	Asp-1 to Gly-22, Pro-24 to Gly-34.	Ala-4 to Gly-11, Pro-26 to Trp-31.	Arg-1 to Asp-7, Ser-26 to Leu-39.	Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.	Ala-5 to Trp-19.			Gly-1 to Pro-6, - Pro-23 to Asn-28	Pro-36 to Ser-46,	Lys-54 to Asn-63.	Gly-1 to His-12, Ser-40 to Pro-66,
	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217			3218
	3 - 413	2-211	2 - 121	3 - 452	1 - 225	2 - 301	3 - 359	1 - 132	49 - 366	422 - 234	2 - 202			2 - 445
	520	521	522	523	524	525	526	527	528	529	530			531
	920365	973359	609722	796358	745133	719663	675122	973349	464015	514556	260869			775242
	HOFMH38	ноғмн95	HOFMI01	HOFMI62	HOFMI63	HOFMJ44	HOFMK22	HOFMM27			HOFMP31		Т	HOFMP79

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	H0415: 1 and H0414:	<u></u>		H0415: 4	H0415: 2			H0415: 2	H0415: 1 and H0435:	1.			H0415: 2		,	H0415: 2	,	H0415: 2		ı				H0415: 2		H0415: 1 and H0414:	1.	H0415: 2
Glu-79 to Lys-89, Glu-96 to Leu-105.	Gly-11 to Leu-19,	Val-23 to Gly-32,	His-34 to Ser-45.		Gly-1 to Ser-13,	Arg-26 to Glu-35,	Gly-38 to Met-48.		Thr-4 to Gly-9,	Leu-32 to Glu-42,	Pro-54 to Cys-68,	Ile-97 to Gly-113.	Arg-34 to Thr-44,	Pro-65 to Gly-79,	Leu-98 to Ser-105.	Asn-20 to Cys-29,	Val-33 to Ser-40.	Val-6 to Arg-12,	Pro-19 to Thr-36,	Ser-49 to Thr-54,	Glu-61 to Trp-67,	Pro-77 to Ala-84,	Ser-104 to Asn-114.	Arg-1 to Asn-8,	Lys-20 to Gly-38.	Gly-2 to Gly-9.		Arg-1 to Gly-20,
	3219			3220	3221			3222	3223				3224			3225		3226						3227		3228		3229
	34 - 318			183 - 449	2 - 280	١		187 - 348	340 - 2				2 - 502			2 - 157		1 - 411						2 - 169		3 - 248		2 - 373
	532			533	534			535	536				237			538		539						540		541		542
	823439			906933	789347			464075	514568				212820			862699		811542						754251		563575		702492
	НОҒМО04			HOFMQ31	HOFMQ65		,	HOFMS68	HOFMS74				HOFMS89			HOFMT20		HOFMT43						HOFMT66 754251		HOFMT72		HOFMU33

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	H0415: 2	H0415: 2	H0415: 2			H0415: 2		H0415: 2	H0415: 2	H0415: 2	H0415: 2	H0415: 2	AR054: 11, AR051: 3,		H0415: 2	•	•				H0415: 2					H0415: 2	H0415: 2	H0415: 2
Pro-45 to Ser-50.	His-8 to Trp-19.		Lys-10 to Trp-15,	Pro-47 to Ser-55,	Pro-67 to Phe-76.	Glu-19 to Gln-24,	Thr-30 to Lys-38.	Arg-1 to Gly-12.	Tyr-1 to Pro-12.		Pro-80 to Trp-88.		A	A		Ala-5 to Ala-13,	Pro-15 to Lys-23,	Ala-39 to Cys-44,	Pro-47 to Cys-74,	Ala-83 to Gly-90.		Gln-30 to Asp-35,	Gln-44 to Gly-54,	Ser-61 to Val-89,	Ser-92 to Ser-98.	Thr-30 to Tyr-39.		Thr-18 to Trp-23.
	3230	3231	3232			3233		3234	3235	3236	3237	3238	3239			5342					3240					3241	3242	3243
	1 - 243	2 - 121	3 - 230			209 - 373		95 - 343	203 - 3	3 - 122	54 - 341	446 - 90	407 - 174			2 - 325					2 - 388	-				67 - 225	140 - 280	1 - 207
	543	544	545			546		547	548	549	550	551	552			2655					553					554	555	556
	744325	713809	829109			615287		792734	973354	658476	867984	727285	727173			888450					716670					717067	859106	935569
	HOFMU63	HOFMU75	HOFMV84			HOFNA04		HOFNA92	HOFNC63	HOFND14	HOFND40	HOFND50	HOFND52								HOFND90					HOFND94	HOFNG01	HOFNG06 935569

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										601362												125852,	126452	120402,	126452,	141900,	141900,	141900,	141900.
									-	10p13	•											11p15.5	•						
H0415: 2	H0415: 4	H0415: 2		H0415: 3	AR089: 9, AR061: 3	H0415: 1 and H0414:	1.	AR089: 8, AR061: 7	H0415: 3	H0415: 6, H0414: 2,	H0046: 1 and H0271: 1.	•		H0415: 2	H0415: 2	H0415: 2	H0415: 2					H0415: 2							
Asp-14 to Gly-20, Arg-45 to Ala-50.		Pro-2 to Gly-13,	Gly-59 to Ser-64.	Gly-36 to Tyr-50.	Ser-26 to Pro-33.			Lys-54 to Ser-60,	Tyr-86 to His-93.	Gly-1 to Pro-6,	Thr-24 to Ala-30,	Ser-33 to Pro-41,	Ser-51 to Ser-61.		Gln-1 to Pro-8.		Pro-7 to Ser-12,	Glu-37 to Ser-42,	Leu-45 to Gly-53,	Leu-68 to Val-75,	Ser-81 to Thr-86.						-		
3244	3245	3246		3247	3248			3249		3250				3251	3252	3253	3254					3255							
3 - 152	1 - 426	140 - 376		117 - 362	1 - 405			41 - 346		2 - 394			٠	1 - 225	244 - 414	2 - 340	109 - 405					1 - 216							
557	558	529		260	561			295		563				564	565	266	292		-			268							
715101	974435	708727		717355	666498			916963		906250				711205	770088	869113	615305			_		705435	_						1
	HOFNI08	HOFNI48	301	HOFNI82	HOFNL18		\neg	HOFNIL25		HOFNL37				\neg	_		HOFNT59					HOFNU72							

141900.	141900,	-142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500,	. 958009	601680,	602631,	602631									
					-									-															
	•												•			-					H0415: 2	H0415: 8 and H0414:	2.	H0415: 2	H0415: 2			H0415: 2	H0415: 2
																			+		Lys-1 to Ser-14.			•	Pro-15 to Pro-25,	Lys-68 to Glu-76,	Lys-89 to Arg-107.	Ser-18 to Ser-34.	Gly-1 to Pro-6.
																					3256	3257		3258	3259			3260	3261
	'															1					28 - 237	6 - 365		217 - 495	68 - 430			98 - 379	2 - 268
																					269	270		571	572			573	574
																				0000	916588	973351		920218	715312			660317	859104
																				011011		HOFNW79			HOFNY50				HOFNZ16

HOFNZ21	677372	575	109 - 456	3262	Arg-1 to Gly-6.	H0415: 2	9p13-p12	230400,	
	683473	576	29 - 229	3263		H0415: 2		007007	T
HOFNZ94	794308	577	99 - 218	3264		H0415: 1 and H0414:			Ì
HOFOA17	935553	578	142 - 369	3265	Glv-34 to Glu-39	H0415-2			T
HOFOB88	751692	579	1 - 501	3266	Thr-2 to Val-11.	H0415: 2			T
					Leu-18 to Gly-25,		-		_
					Pro-30 to Ser-35,				
					Ala-40 to Pro-47,				
					Lys-62 to Glu-70,				
_					Lys-76 to Arg-82.				
HOFOB91	827631	580	1 - 234	3267		H0415: 2			T
HOFOE94	924473	581	173 - 382	3268	Thr-1 to Ser-11,	H0415: 2			Τ
					Ser-23 to His-29,		_		
			,		Gly-53 to Gln-67.				
\neg	606999	582	3 - 419	3269		H0415: 2			T
HOFOF84	739399	583	78 - 431	3270	Asn-1 to Gln-9,	H0415: 2			Τ
7					Pro-17 to Ala-30.				
HOGAF39	947431	584	3 - 269	3271	Asp-1 to Leu-22,	H0435: 1 and S0152: 1.			T
_					Val-26 to Trp-38.				
HOGAU90	954011	585	247 - 402	3272	Cys-10 to Asp-19.	H0615: 1 and H0435:			T
HOGAV36	000900	705	211 570	2000					
	050076	200	0/6-117	32/3	Pro-8 to Lys-15,	H0663: 2, L0761: 1,			_
					Arg-6/ to Arg-74,	L0771: 1 and H0435: 1.			
					Arg-76 to Gly-85,				
					Glu-91 to Gly-97, Thr-113 to Phe-120.				·
HOGBF78	575929	587	264 - 443	3274	Lys-1 to Val-7.	H0435: 2 and L0592:			Τ

								,				,	,	,										
					14			'		,									4				,	
1.	H0165: 1, H0435: 1 and L0747: 1.	H0435: 2	H0040: 1 and H0435:	1			H0038: 2, L0758: 2,	H0253: 1, H0616: 1,	H0435: 1 and L0777: 1.	H0435: 2	H0435: 1 and H0670:	1.		H0648: 2, L0367: 1,	H0651: 1, L0748: 1 and	L0754: 1.	H0428: 2	H0428: 2	H0428: 2 and L0588:	1.	H0428: 2	H0428: 2	L0754: 2, H0428: 1 and H0616: 1	L0777: 6, L0758: 5,
	Pro-12 to Ala-17, Val-29 to Gly-36.	Pro-3 to Lys-13, Thr-39 to Ile-45.	Arg-1 to Glu-14,	Thr-39 to Gln-45,	Pro-52 to Lys-62,	Glu-89 to Thr-94.					Asp-25 to Ser-34,	Tyr-39 to Gln-44,	Leu-84 to Lys-90.	-				•	•	•		Ser-22 to Arg-35, Lys-39 to Gly-44.	Arg-15 to Gln-21.	Lys-21 to Gly-26.
	3275	3276	3277				3278			3279	3280			3281			3282	3283	3284		3285	3286	3287	3288
	381 - 193	3 - 137	2 - 364		1		52 - 660		•	732 - 298	1 - 285			418 - 621			215 - 358	55 - 183	2 - 298		3 - 107	64 - 243	89 - 238	515 - 763
	588	589	290				591			592	593			594			595	596	297		598	599	009	601
	950216	575931	717068		,	í	890607			968956	961587			965013			576627	757294	927320		670963	723671	990022	964671
	нодсооз	HOGCR32	HOGCT45			,	HOGCX95			HOGEE76	HOGEU49			H00JQ59			HOVAF17	HOVAF71	HOVAG49		HOVAI41	HOVAM50	HOVAO76	HOVBQ10

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										,				138079, 138079,	139191,	142959,	153880,	180104,	600994,	601649		
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L0747: 2, H0428: 1, L0770: 1, L0768: 1, L0533: 1, H0666: 1, L0750: 1 and L0755: 1.	H0428: 2	AR051: 44, AR050: 43, AR054: 30	H0428: 2	H0428: 2	H0428: 2	H0428: 3		H0428: 2	H0428: 2		H0674: 2, H0549: 1	and H0428: 1.		H0428: 2 and L0770: 7,							H0428: 2	L0758: 3, H0428: 2, L0794: 2, L0764: 1,
	Gly-1 to Ala-8, Glu-67 to His-74.				Ser-8 to Leu-16.	Arg-13 to Gly-18,	Gln-44 to Ser-50.	Lys-7 to Ser-16.	Leu-16 to His-22,	Cys-50 to Pro-55.	Ser-1 to Lys-14,	ຕົ	Glu-70 to Pro-88.	Val-11 to Leu-18.	1							1
	3289	3290		3291	3292	3293		3294	3295		3296			3297						0000	3298	3299
	2 - 295	3-215		232 - 354	25 - 192	60 - 284		119 - 241	68 - 319		219 - 482			157 - 423						767	783 - 470	1 - 213
·	602	603		604	605	909		209	809		609			610						511	011	612
	706816	888442		727170	705406	858845		713792	858844		674177			970814						330362	000007	496190
·	HOVBY34	HOVBZ26	00 1 011011	HOVCA52	HOVCD39	HOVCI76		HOVCI77	HOVCJ24		HOVCM22			HOVCO11 970814						UOM/COE6	EUV CUJ8	HOVCQ47

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L0803: 1 and L0593: 1.	L0769: 4, L0758: 3,	L0717: 2, H0428: 2,	L0794: 2, L0731: 2,	L0591: 2, L0776: 1,	L0786: 1 and L0779: 1.	H0428: 1 and H0032:	1,	AR089: 10, AR061: 4	H0038: 4, H0616: 3,	L0747: 3, L0758: 3,	L0663: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0428: 2 and H0546:	1.	H0688: 3	S0146: 2	H0658: 1, S0146: 1 and	L0754: 1.	S0146: 2						
	Ser-25 to Gly-45.					Thr-11 to Pro-21.		Met-10 to Gly-18.															-						
	3300					3301		3302									3303	,	3304	3305	3306		3307						
	81 - 320					131 - 3		3 - 395							ı		128 - 307		37 - 225	57 - 155	96 - 230	j	2 - 355						
	613					614		615									616		617	618	619		620						
	926219					669896		909138									959234		961467	573829	698320		574952						
	HOVDY04					HOVEE58		HOVEK70								$\overline{}$	HOVEV36			HPCAB21		_	HPCAE18						

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251170,	276710,	601517	-		-					_										-						
	-		S0146: 2	S0146: 2, H0046: 1,	S0148: 1, L0439: 1 and 1 0745: 1	S0146: 2	S0146: 2		H0615: 1, H0658: 1	and S0146: 1.	H0031: 1 and S0146: 1.	S0146: 2	S0146: 2	S0146: 2	S0146: 2	S0146: 2	H0659: 2	H0659: 2	H0606: 1, L0803: 1	and H0659: 1.	H0549: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, H0658: 1 and	L0747: 1.	H0658: 2	H0046: 17, H0658: 1
							Lys-1 to Gln-6,	Met-15 to Thr-29.				Gly-24 to Ser-34.	Asn-12 to Ile-18.	Asp-26 to Phe-39.				Gly-29 to Tyr-34.	Ser-34 to Gly-43,	Lys-55 to Leu-71.	ļ ,					Arg-7 to Tyr-14.
	•		3308	3309		3310	3311		3312		3313	3314	3315	3316	3317	3318	3319	3320	3321		3322				3323	3324
,			192 - 314	488 - 637		134 - 259	58 - 168		455 - 634		265 - 420	41 - 142	1117	64 - 237	91 - 210	181 - 315	88 - 249	3 - 128	3 - 371		1 - 384				22 - 201	92 - 436
			621	622		623	624		625		979	627	628	629	630	631	632	633	634		635				636	637
			573395	923808		655535	655536		662121		734931	655723	924709	655607	655742	655732	927168	92816	927135		922481				929318	966158
			HPCAH18	HPCAH88		HPCAI21	HPCAI68		HPCAK16		HPCAK57	HPCAL60	HPCAL86	HPCAM22	HPCAN59	HPCA004	HPCPF05	HPCPO07	HPCQY57		HPDOT03				HPDOY06	HPDPJ69

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and H0672: 1.	H0658: 2	L0520: 2, L0770: 2,	H0658: 2, L0659: 1 and L0759: 1.	L0749: 3, H0658: 2	and H0660: 1.	H0658: 2, L0745: 2,	H0644: 1 and L0529: 1.	H0658: 2	L0748: 3, H0658: 2	and L0741: 1.	L0021: 1, H0658: 1	and H0672: 1.	H0644: 2 and H0658:	1.	L0512: 5, L0513: 4,	H0686: 3, L0509: 3,	L0789: 3, L0761: 2,	L0772: 2, L0764: 2,	L0717: 1, L0800: 1,	L0378: 1, L0776: 1,	[L0659: 1, H0658: 1 and	L0747: 1.	H0046: 2, L0794: 1,	L0766: 1, H0658: 1,	L0748: 1 and L0758: 1.	L0374: 1, L0804: 1,	L0805: 1, H0658: 1,	H0648: 1, L0750: 1 and
		Ile-10 to Asn-36.		Ala-13 to His-22,	Leu-80 to Arg-86.				Pro-51 to Phe-57,	Ser-87 to Thr-94.			Arg-5 to Cys-10,	Ser-22 to Ile-28.	Pro-22 to Asn-33,	Arg-103 to Val-108.			1	,								
	3325	3326		3327		3328		3329	3330		3331		3332		3333								3334			3335		
	155 - 316	2 - 223		588 - 875		306 - 449		308 - 511	1 - 291		2 - 163		342 - 554		430 - 765								524 - 847			97 - 243		
	638	639	:	640		641		642	643		644		645		646								647			648		
	969340	922464		929274		914437		957791	967704		9249		951634		928647								922193			226896		
	HPDPK12	НРDРQ40		HPDQ005		HPDRB01	,	HPDRD28	HPDRG92		HPDRO20		HPDVB07		HPDVE05						-		HPDVF03			HPDVK12		

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																,	106300,	120290, 120290, 120290,
					5-1		,										6p21.1-p21.3	· .
L0755: 1.	L0779: 2, H0032: 1 and H0658: 1.	H0658: 2		H0165: 2	H0166: 1, H0059: 1	and L0768: 1.	H0166: 2 and L0598:	H0166: 2 and L0604:	H0166: 1, H0673: 1,	LU/03: 1 and LU381: 1.	H06/3: 2	H0673: 2	H0328: 1 and H0673: 1.	L0779: 2, H0428: 1,	H0673: 1, L0766: 1 and L0658: 1.	H0168: 1 and H0169: 1.	H0169: 2	
	His-19 to Tyr-34, Glu-39 to Pro-47.	Gln-1 to Thr-6, Ser-22 to Leu-27,	Ser-32 to Phe-37,		Trp-1 to Pro-11,	Ala-27 to Phe-34, Ser-46 to Thr-60.	Ile-18 to Asn-25.		Glu-31 to Cys-39.		1			Gly-1 to Asn-8,	Pro-22 to Ser-31, Thr-41 to Lys-48.		Ser-12 to Ser-17, 1 ys-24 to Ser-34	27.5 27.10 001 27.
	3336	3337		3338	3339		3340	3341	3342	22.42	3343	3344	3345	3346		3347	3348	
	439 - 591	226 - 444		3 - 224	253 - 2 -		61 - 255	3 - 200	284 - 406	1	1 - 90	57 - 131	220 - 408	2-217	·	283 - 426	40 - 288	
	649	929		651	652	İ	653	654	655	737	920	657	658	629		099	661	
	933443	955902		867892	208096		723298	655760	716911	014116	914115	922391	921663	969251		960801	524720	
	HPDVM06	HPDVY17		HPEAF19	HPEBA06		HPEBA51	HPEBD31	HPEBE44	IMENCIO	HFEKGIS	HPEKJ42	HPEKU27	HPEKX12		HPFAA06	HPFCA36	

120810	120810,	147857	1,4007,	142858,	150270,	167250,	170261,	177900,	179450,	179605,	179605,	179605,	179605,	179605,	180297,	201910,	217000,	222100,	233100,	235200,	248611,	256550,	256550,	263200,	600202,	600261,	600364,	601498,	601690,	601868,
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602280,	-											103050,	103050,	124030,	124030,	138981,	182380,	188826,	190040,	190040,	190040						
					•							22q13.1															
	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2		H0169: 2	H0169: 2	H0169: 2	•	H0169: 2 and L0519:	1.							,		H0169: 2, L0749: 2	and L0748: 1.	H0169: 2	H0169: 2	H0169: 2	H0169: 2
	Glu-28 to Gly-42.			Ser-2 to Pro-10.	Ala-38 to Ser-48.	Met-4 to Leu-9,	Gly-39 to Gln-46.	Ser-15 to Leu-23.		Leu-18 to Arg-25,	Gly-35 to Lys-40.	Ser-18 to Thr-25.	•				1	•				Glu-11 to Thr-19.					Lys-9 to Thr-14,
	3349	3350	3351	3352	3353	3354		3355	3356	3357		3358										3359		3360	3361	3362	3363
,	130 - 363	152 - 355	186 - 398	353 - 189	38 - 193	154 - 357		65 - 139	135 - 287	2 - 244		20 - 166		1								1 - 210		136 - 306	273 - 401	190 - 411	140 - 286
	662	663	664	999	999	299		899	699	0/9		671										672		673	674	675	9/9
	655596	536666	655744	009896	781490	89/559		655538	655736	925495		960365										867871		867880	655749	655621	655533
	HPFCA71	HPFCF09	HPFCF24	HPFCF40	HPFCF83	HPFCH15		HPFCH89	HPFCM41	HPFCM87		HPFCN08					-					HPFCO02		HPFCO67	HPFCQ88	HPFCR21	HPFCR82

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	H0169: 2	H0169: 3		H0169: 2	:	H0169: 2 and L0776:	<u>.</u>		H0328: 1, H0615: 1,	H0169: 1, L0807: 1 and	L0754: 1.	H0169: 2	H0169: 2	H0169: 2 and L0809:			H0169: 4			H0169: 3	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2 and L0763:	•	H0169: 3
Glu-21 to Pro-26.	Met-1 to Cys-9.	Ile-3 to Ala-14,	Arg-63 to Pro-68.	Glu-9 to Arg-15,	Pro-24 to Tyr-39.	Leu-5 to Ser-11,	Pro-13 to His-19,	Lys-34 to Tyr-39.	Gly-22 to Cys-32.			Ser-16 to Asp-26.	Lys-23 to Val-34.	Leu-4 to Lys-18,	Gly-36 to Glu-45,	Lys-60 to Cys-65.	Asp-1 to Arg-7,	Thr-17 to Asn-22,	Leu-25 to Pro-30.	Ser-3 to Tyr-9.	Cys-32 to Pro-38.	Leu-5 to Gly-10.	-		Pro-18 to Asn-25.			
	3364	3365		3366		2367			3368			3369	3370	3371			3372			3373	3374	3375	3376	3377	3378	3379		3380
	13 - 120	271 - 522		82 - 198		79 - 195			1 - 240			153 - 263	2 - 163	67 - 330	,		392 - 538		-	156 - 320	121 - 318	197 - 367	2 - 202	8 - 160	166 - 342	36 - 212	,	63 - 173
	677	8/9		619		089			681			682	683	684			685			989	687	889	689	069	691	692		693
	655563	974257		655432		902559			525554			655588	002096	655704			974249	_		973732	655610	655549	954333	655543	581133	022230	0.7.1.0	974569
	HPFCT09	HPFCT53		HPFCT62		HPFCV19			HPFCV71			HPFCX18	HPFDD06	HPFDE38			HPFDE61			HPFDF79	HPFDG58	HPFDI23	HPFDL90	HPFDS59	HPFDT17	HPFDT54	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HPFDT61

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H0169: 2	H0169: 2	H0169: 2	AR050: 117, AR054:	88, AR051: 81 H0169: 2	H0109: 2	H0169: 2, L0747: 2,	H0688: 1, L0770: 1,	L0803: 1, L0748: 1 and	L0756: 1.	H0169: 2	H0169: 3	H0169: 2	H0674: 2	H0674: 2	S0150: 2		S0150: 2				S0150: 2	S0150: 2	H0484: 1 and S0150: 1.		S0150: 2	AR061: 9, AR089: 7	H0616: 1, S0150: 1 and	L0581: 1.
His-46 to Pro-51.			Pro-14 to Gly-25.		,	Val-1 to Lys-11,	Pro-24 to Asp-33,	Lys-44 to Glu-58.			Ile-1 to Gly-44.		Ala-7 to Arg-12.	Lys-9 to Leu-15.	Asn-1 to Lys-7,	Pro-14 to Cys-23.	Ser-1 to Arg-7,	Pro-57 to Trp-67,	Pro-70 to Ala-75,	Ser-87 to Gly-95.	Pro-39 to Glu-46.	Lys-1 to Lys-17.	Gly-1 to Val-6,	Asp-25 to Gln-42.	Ser-8 to His-16.			
3381	3382	3383	3384		2000	3385				3386	3387	3388	3389	3390	3391		3392				3393	3394	3395		3396	3397		
2 - 232	36 - 167	214 - 369	124 - 354			1 - 294	1			25 - 213	2 - 187	142 - 309	63 - 212	39 - 113	17 - 394		2 - 334				106 - 243	61 - 2	2 - 463		64 - 174	282 - 608		
694	695	969	269		900	869				669	200	701	702	703	704		705				206	707	708		709	710		
522113	628298	739617	867870		10000	655571				655764	960372	664576	983836	917775	655748		655595				919469	655573	928614		615007	925424		
HPFDU30	HPFDU38	HPFDU59	HPFDV71		TIMETOTAL	HPFDX13				HPFDZ20	HPFEA08	HPFEA32	HPFMA06	HPFML02	HPIAE79		HPIAO83				HPIAQ49		HPIAS40		HPIAV80	HPIAX11		

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		1								•																		
S0150: 2	AR089: 4, AR061: 2	S0150: 2			H0546: 1 and S0150: 1.		S0150: 2	S0150: 2	L0439: 2, H0616: 1	and S0150: 1.	S0152: 2	S0152: 2		S0152: 2 and L0780: 1.		S0152: 2	S0152: 2	S0152: 2		S0152: 2	1	S0152: 2	L0748: 3, S0152: 2,	H0615: 1, H0617: 1 and	L0758: 1.	S0152: 2	S0152: 2	S0152: 2
	Ile-47 to Val-53,	Phe-71 to Thr-76,	Ser-105 to Thr-113,	Glu-121 to Ser-129.	Ala-15 to Ser-21,	Gln-30 to Asp-36.	Tyr-30 to Cys-36.					His-1 to Asp-6,	Ala-16 to Ala-25.	Cys-5 to Gly-12,	Ser-47 to Arg-52.	His-1 to Leu-19.		Val-2 to Ser-14,	Gly-27 to Ala-37.	Arg-5 to Lys-13,	Ser-20 to Thr-25.	Leu-43 to Cys-51.	•			Ser-29 to Arg-35.	Ser-19 to Gln-25.	
3398	3399				3400		3401	3402	3403		3404	3405		3406		3407	3408	3409		3410		3411	3412			3413	3414	3415
2 - 289	2 - 424				1 - 468		176 - 283	133 - 294	211 - 414		1 - 153	3 - 269		154 - 330	-	3 - 251	180 - 332	141 - 290		53 - 187		180 - 335	346 - 594			162 - 326	1 - 81	99 - 263
711	712				713		714	715	716		717	718		719		720	721	722		723		724	725			726	727	728
655753	884289				725539		625719	151559	786117		655540	655531		109559		867831	655712	655694		655765		952852	823393			655761	655708	655751
HPIAZ37	HPIBQ37				HPIBR51		HPIBT49	HPIBY65	HPICC89		HPJAB19	HPJAB84		HPJAC36		HPJAC92	HPJAD09	HPJAD66		HPJAD82		HPJAV07	HPJAW56			HPJBI17	HPJBI89	HPJBK52

																	,											
S0152: 2		S0152: 2	S0152: 2	S0152: 2	H0056: 1 and S0152: 1.	S0152: 2	H0253: 1 and S0152: 1.	-	;	S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2 and L0070: 1.						-		S0152: 2	H0615: 2 and S0152: 1.	S0152: 2	L0770: 2, L0779: 2,	H0553: 1, L0766: 1,	L0666: 1, S0152: 1 and
Gln-13 to Thr-18,	His-40 to Met-45.		Asn-42 to Gly-51.		Pro-36 to Gly-62.		Ala-14 to Lys-21,	Asp-37 to Gly-48,	Gly-60 to Leu-65.			Pro-3 to Cys-11.	Val-2 to Thr-8.	Ser-1 to Gly-16.	Leu-8 to Lys-19,	Asp-25 to Arg-33,	Ser-40 to Ser-63,	Ala-70 to Val-77,	Glu-91 to Asp-97,	His-108 to Asn-116,	Lys-130 to Glu-136,	Asp-139 to Val-144.	•	•		Ser-23 to Arg-28.		
3416		3417	3418	3419	3420	3421	3422			3423	3424	3425	3426	3427	3428								3429	3430	3431	3432		
29 - 193	_	10 - 123	32 - 370	113 - 244	95 - 337	2 - 286	260 - 460			245 - 334	239 - 349	111 - 203	79 - 183	102 - 242	438 - 1031								386 - 556	299 - 454	79 - 183	292 - 483		
729		730	731	732	733	734	735			736	737	738	739	740	741					**			742	743	744	745	-	
628856		655729	926787	964259	966676	590404	680898			655730	655600	622269	922850	934170	958182								906904	931027	838748	954970		
HPJBU08		HPJBV17	HPJCC04	HPJCP10	HPJCP11	HPJCS84	HPJCV50			HPJCX15	HPJCX26	HPJCY70	HPJCZ03	HPJCZ06	HPJDA08								HPJDJ58	HPJDP05	HPJDX94	HPJEE38		

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L0777: 1.	S0152: 2	S0152: 2	H0435: 1 and S0152: 1.11	S0152: 2	AR061: 0, AR089: 0	S0152: 2		S0152: 2		L0754: 39, L0748: 7,	H0553: 4, H0030: 1,	L0142: 1 and S0454: 1.	H0030: 2	H0030: 2	H0030: 2		H0030: 2	H0030: 1, H0038: 1	and L0758: 1.	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0777:	2	H0031: 3			
	Gly-1 to Pro-7.	Gly-1 to Ala-11.		Thr-29 to Gly-38.	His-8 to Gly-18,	Leu-40 to Ile-45,	Asn-100 to Asp-105.	Leu-17 to Glu-23,	Arg-27 to Glu-35.	Gly-1 to Arg-9.					Glv-1 to Ala-7.	Pro-42 to Asn-47.	Phe-29 to Lys-35.	Glu-1 to Thr-9.					Gln-20 to Ser-31,	Phe-41 to Gly-47.	Tyr-19 to Gly-46,	Ser-48 to His-59,	Gly-65 to Gly-77,	Thr-91 to Tyr-96.
	3433	3434	3435	3436	3437			3438		3439			3440	3441	3442		3443	3444		3445	3446	3447	3448		3449			
	14 - 130	284 - 538	149 - 328	239 - 448	39 - 377			70 - 213		49 - 189			236 - 3	287 - 72	16 - 183		57 - 245	2 - 241		40 - 153	2 - 214	1 - 147	125 - 301		3 - 503			
	746	747	748	749	750			751		752			753	754	755	į	756	757		758	759	09/	761		762			
	926815	930988	927618	867725	836503			934096		117680			557554	503751	503732		503730	558187		705471	766443	954057	577661		575626			
	HPJEIS5	HPJEJ39	HPJEQ04	HPJEQ22	HPJET90			HPJEV06		HPLAN47			HPLAR41	HPLBB50	HPLBL31		HPLBL57	HPLB061	_		\neg	_	HPMBK49	\rightarrow	HPMBM48			

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H0031: 2	H0031: 4	H0031: 3	H0031: 2		H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 4 and L0803:	1.	H0031: 2	H0031: 2 and L0605:	-	H0031: 2	H0253: 1 and H0031:	1.	H0031: 2, L0809: 1,	L0438: 1 and L0439: 1.		H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 2 and L0600:	1.	H0031: 3		H0031: 10
		Gly-1 to Gly-8.	Thr-1 to Gln-7,	Pro-24 to Gly-32.	Ser-32 to Thr-41.			Tyr-25 to Gly-32.	Ser-50 to Gly-55.			Gly-12 to Ile-18.		Pro-28 to Pro-42.	Asp-1 to Cys-6.	P	Leu-19 to Thr-25,	Arg-66 to Phe-87.			Glu-30 to Asp-40.			Leu-6 to Leu-16,	Thr-24 to Trp-29.	Gh-1 to Gh-9,	Arg-15 to Gly-22.	Tyr-1 to Arg-8.
3450	3451	3452	3453		3454	3455	3456	3457	3458		3459	3460		3461	3462		3463		5343	3464	3465	3466	3467	3468		3469		3470
1-120	39 - 278	1 - 249	192 - 404		28 - 165	3 - 125	118 - 276	2 - 163	90 - 341		62 - 196	111 - 302		171 - 314	3 - 278		326 - 66		3 - 341	27 - 161	93 - 317	1 - 243	44 - 304	54 - 314		3 - 182		16 - 108
763	764	765	992		192	292	692	170	771		772	773		774	775		9//		2656	777	778	779	780	781		782		783
920865	968365	867677	785732		557870	531058	577637	531338	527006		932527	531289	77.01	531066	529960		381961		881473	577598	524768	531279	577601	742095		954056		961250
HPMBN02	HPMBO10	HPMB061	HPMBR17		HPMBU81	HPMBX35	HPMBX79	HPMBY76	HPMBY83		HPMBZ05	HPMCB65	20000	- 1	HPMCD77	\neg	HPMCI02				HPMCJ14		HPMCJ48	HPMCK65		HPMCS19		HPMCS65

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H0031: 3 and L0594:	H0031: 2 and L0758:	<u>.</u>			H0031: 2		H0031: 2 and L0662:	1.	H0031: 2		H0031: 2	H0031: 3, L0667: 1	and L0748: 1.	H0031: 4	H0031: 2	,	H0031: 2	H0031: 2	H0031: 2		L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0031: 2	H0031: 2 and H0644:
Arg-5 to Trp-15.	Gly-1 to Ser-8,	Leu-36 to Gly-42,	Leu-48 to Asn-55,	Lys-83 to Met-91.	Pro-19 to Lys-26,	Pro-36 to Gly-55.	Gln-6 to Thr-19.		Asp-7 to Leu-12,	Ala-16 to His-21.					Glu-1 to Pro-6,	Thr-45 to Val-50.			Gly-38 to Ser-45,	Gly-72 to Gly-78.						Lys-8 to Lys-15.	Phe-5 to Gly-10.
3471	3472				3473		3474		3475		3476	3477		3478	3479		3480	3481	3482		3483					3484	3485
31 - 186	1 - 285				2 - 202		115 - 312		119 - 271	•	189 - 338	272 - 397		108 - 215	49 - 330		55 - 204	33 - 227	3 - 299		163 - 276		•			7 - 51	116 - 286
784	785				786		787		788		789	. 790		791	792		793	794	795		962					797	798
657532	867673				727392		967655		867687		725180	571411		582594	577590		531275	867682	745346		577626					531274	531276
HPMCV93	HPMCW25				HPMCW53 727392		HPMCX11	Т	HPMCY30		HPMCY31	HPMCY35		HPMDJ09	HPMDL78		HPMD039		HPMDT91	\neg	HPMDU19				_	_	HPMDZ62

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										102480,	123620,	133450,	133450,	138981,-	188826,	190040,	190040,	190040,	600850,	601669,	602779	189800,	600983				
						1.4				22q12-q13	1			,								4d31.1-d31.2				1	
1.	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0740:	1. ADAC1. 6 ADAGO. 2	H0031. 3	H0031-4	H0031: 2	H0031: 2	H0031: 3, L0731: 3,	H0046: 2, L0617: 1,	L0747: 1 and L0779: 1.	٠		•	,				•	0 100011	H0031: 2			H0031: 3		
	Lys-20 to Thr-31.			Пе-29 to Пе-36.	1 via 22 to Car 22	Lys-23 to 361-33.			Pro-20 to Pro-26.	Arg-1 to Ser-8,	Pro-23 to Gly-30,	Glu-62 to Arg-68.			1			•	,	,	D. 16 to 1	FIG-13 to Leu-27,	Fne-44 to Asp-49,	Ala-83 to Lys-99.	Asp-37 to Thr-43,	Ala-46 to Ala-53,	His-64 to Trp-76.
	3486	3487	3488	3489	3400	0640	3401	3492	3493	3494											2405	3473			3496		
	3 - 149	136 - 249	92 - 214	1 - 114	7 451	104 - 7	240 - 437	182 - 319	3 - 122	117 - 443											2 404	- 404 - 404			3 - 281		
	799	800	801	803	803	200	804	805	908	807											000	909			809		
	531349	867658	268899	702501	521247	/+CTCC	531321	577619	925080	784781	•										002000	000076			575934		
	HPMEB66	HPMEC16	HPMEC36	HPMEC69	HPMED52	2007M	HPMEE48	HPMEE66	HPMEG50	HPMEI39											TIDIVEDU	70G.TM13T1			HPMFB28		

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H0031: 8 and L0581: 2.	H0031: 2	H0031: 2		H0031: 2	H0031: 2		H0031: 2	H0031: 2	H0031: 2, L0438: 2	and L0439; 2.	H0031: 5	AR089: 1, AR061: 1	H0031: 2	H0031: 2, H0644: 1	and L0527: 1.	•	H0428: 1, H0031: 1,	L0766: 1, L0659: 1,	H0690: 1, L0439: 1,	L0754: 1 and L0756: 1.	H0031: 3	H0031: 2	H0031: 3	H0031: 3	H0031: 4 and L0754:	1.	H0031: 3
		Leu-2 to Glu-8,	Pro-39 to Ser-44.	Gln-14 to Thr-22.	Ser-8 to Ser-14,	Ser-27 to Pro-48.	Pro-38 to Gly-45.		Gln-7 to Ser-12.			Met-43 to Trp-52.		Ala-1 to Lys-6,	Pro-12 to Trp-19,	Met-63 to Lys-68.				,	Arg-15 to Val-21.	Leu-9 to Ile-17.		The special section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the section is a section in the section i			Ala-1 to Asn-9,
3497	3498	3499		3500	3501		3502	3503	3504		3505	3206		3507			3508				3509	3510	3511	3512	3513		3514
277 - 465	46 - 234	148 - 291		3 - 158	2 - 214	1	1 - 183	248 - 460	170 - 487	•	53 - 259	191 - 346		2 - 205			482 - 631				262 - 444	107 - 427	121 - 348	118 - 261	483 - 692		64 - 342
810	811	812		813	814		815	816	817		818	819		820			821				822	823	824	825	826		827
575620	526594	577593		577633	577636		575941	575943	575932		577588	959569		874359			582595				968821	867662	577629	575914	867651		711640
HPMFB37	HPMFB75	HPMFB84		HPMFE35	HPMFE60		HPMFE73	HPMFH21	HPMFJ50		HPMFJ55	HPMFL08		HPMFL80			HPMFM29				HPMFN12	HPMFP05	HPMFP30	HPMFP38	HPMFQ84		HPMFS41

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		H0031: 4	H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 2		H0031: 5 and L0142:	1.	L0774: 4, H0031: 2,	L0439: 2, L0435: 1,	L0803: 1 and H0670: 1.	H0031: 2	H0031: 2		,	H0031:2	H0031: 4	H0031: 2	H0031: 9 and L0758:		H0031: 2		H0031: 2	H0031: 3	H0031: 3, H0651: 1,	L0731: 1 and L0758: 1.
Glu-17 to Glu-22,	Trp-36 to Gln-44.		Tyr-24 to His-32.	Lys-1 to Gly-7.	Phe-15 to Asn-20.	Gln-10 to Gln-20.	Arg-18 to Val-24,	Glu-43 to Gly-54.	Asp-19 to Ser-30.		Leu-34 to Cys-41.				His-1 to His-7,	Ser-16 to Glu-22,	Phe-65 to Ser-71.	Arg-28 to Leu-37.	His-39 to Thr-44.		Gln-6 to Trp-17.	,	Arg-18 to Ser-29,	Gly-62 to Tyr-78.			Gly-1 to Ser-16,	~ີ
		3515	3516	3517	3518	3519	3520		3521		3522			3523	3524			3525	3526	3527	3528		3529		3530	3531	3532	
		28 - 180	169 - 300	172 - 312	27 - 167	204 - 365	16 - 246		3 - 152		284 - 412			158 - 355	3 - 218			3 - 206	88 - 243	180 - 320	55 - 381	,	1 - 306		30 - 353	176 - 340	1 - 564	
		828	829	830	831	832	833		834		835			836	837			838	839	840	841		842		843	844	845	
		916662	575894	652097	575911	926263	960065		932529		575908			867657	577642			577603	968359	506379	920313		703835		867648	873392	954823	
		HPMFT04	HPMFU89	HPMFV28	HPMFV82	HPMFV88	HPMFW25	,	HPMFW78		HPMFX13				HPMFX70				HPMGA83		HPMGC07	-T	HPMGC23		HPMGE31	HPMGE95	HPMGF06	

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				,											•		138079,	138079,	139191,	142959,	153880,	180104,	600994,	601649		
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	H0031: 2			H0031: 2	H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 3, L0757: 3,	L0803: 2 and L0766: 1.		H0031: 3 and L0754:	L0805: 5. H0031: 2.	L0749: 2, L0766: 1,	L0776: 1 and L0779: 1.	H0031: 2	H0031: 2		,	,					H0031: 2	H0031: 2
Arg-44 to Val-50.	Tyr-1 to Ile-7,	Cys-20 to Asp-33,	Leu-40 to Ser-45.				Trp-40 to His-45.		His-18 to Cys-23,	Glu-33 to Phe-40,	Thr-42 to Trp-47, Cys-53 to Glu-63.		Ala-1 to Asn-16.	Lys-45 to Thr-54.												
	3533			3534	3535	3536	3537	3538	3539			3540	3541			3542	3543			٠					3544	3545
	226 - 92			267 - 398	62 - 283	79 - 219	147 - 359	223 - 369	159 - 488			347 - 529	2 - 223			189 - 356	24 - 224							,	46 - 111	230 - 367
	846			847	848	849	850	851	852			853	854			855	856							1,50	857	858
	577615			577641	924521	920326	864040	575924	671936	-		730751	854081			577599	506235							1 0	5/5951	796440
	HPMGF32			HPMGH16	HPMGI03	HPMGI84	HPMGJ93	HPMGK37	HPMGK59 671936			HPMGK62	HPMGM33				HPMGR80							000003 8444		HPMGS24

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H0031: 2	H0031: 2	H0031: 4	H0031: 2	H0031: 2				H0031: 2		H0031: 2	H0031: 2, L0769: 1	and L0439: 1.	H0031: 3		H0031: 2	H0031: 2			H0031: 3	H0031: 1 and H0644:	1.	H0644: 2		H0644: 3	H0644: 2		H0644: 2	H0644: 2 and H0615:
Ser-26 to Trp-32.	His-1 to Glu-6.		Asp-23 to Pro-34.	His-1 to Gln-15,	Arg-37 to Asp-48,	Ser-63 to Pro-77,	Gly-79 to Lys-85.	Ser-2 to Pro-27,	Leu-38 to Asn-52.		Lys-31 to Thr-37.		Gly-1 to Ser-8,	IIe-41 to IIe-49.		Arg-13 to Ala-23,	Met-27 to Gly-36,	Ser-109 to Leu-116.	Arg-1 to Thr-20.			Leu-39 to Ser-46,	Gly-87 to Pro-94.	Gln-42 to Asp-50.	Ile-1 to Gln-10,	Ser-20 to Gln-27.		Glu-15 to Arg-20.
3546	3547	3548	3549	3550				3551		3552	3553		3554		3555	3556			3557	3558	:	3559		3560	3561		3562	3563
1 - 123	35 - 301	88 - 210	38 - 277	3 - 257				3-314		142 - 294	289 - 552		1 - 147		46 - 198	1 - 441			159 - 1	1 - 267		2 - 370		136 - 330	207 - 425		1 - 171	166 - 276
859	098	861	862	863				864		865	998		298		898	698			870	871		872		873	874		875	928
970815	968364	582596	577635	920309				575903		970813	2421295		531382		577631	928433			760426	914759		930844		930806	867587		965642	930873
HPMGT67	HPMGV12	HPMGV15	HPMGV59	HPMGW48 920309				HPMGX23		HPMHA80	HPMHB74		HPMHB83		HPMHC74	HPMHD66 928433			HPMHD71	HPMJC01		HPMJC05	\neg		HPMJE84		HPMJF76	нРМЛ81

												126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
-		-	,									126	126	154	173	173	602	602	602	602		<u> </u> 	+		
												7q22	•												
1.	AR089: 21, AR061: 15 H0644: 2	H0644: 2			H0644: 2		H0644: 3	H0644: 3	H0644: 2, L0794: 1	and L0748: 1.	H0644: 2	AR061: 2, AR089: 1	L0666: 3, L0777: 2,	L0608: 2, H0046: 1,	H0031: 1, H0644: 1,	L0803:1, L0783:1,	H0672: 1, L0740: 1,	L0750: 1 and L0755: 1.			H0644: 2 and L0589: 1.	H0644: 3 and L0471:	H0644: 2 and L0527:	1.	H0644: 2
		Ala-1 to Phe-6,	Thr-32 to Gly-38,	Pro-54 to Gln-73.	Arg-37 to Asn-50,	His-81 to Gln-89.	Tyr-15 to Tyr-21.		Ser-8 to Phe-26.			Arg-15 to Gln-21,		Lys-58 to Asp-72.			1				Arg-2 to Tyr-7.		Leu-36 to Glin-52.		Arg-43 to Ser-48.
	3564	3565			3566		3567	3568	3569		3570	3571									3572	3573	3574		3575
	84 - 470	1 - 222			160 - 429		204 - 353	3 - 203	287 - 454		3 - 125	64 - 567		ı						27.2	222 - 545	343 - 543	173 - 421		155 - 370
	877	878			879		880	881	882		883	884								200	 	988	887		888
	946876	922649			917419		958001	922657	969478		957997	894416								00000	86/5/3	867533	918123		922621
	HPMJN59	HPMJ046			HPMJR02		HPMJV08	HPMJY55	HPMKB19		HPMKI53	HPMKM81								11101 (177142	HPIMIKIN43	HPMLE04	HPMLK02		HPMLK76 922621

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H0544: 1, H0644: 1	and L0754: 1.	H0644: 2	H0111:2	H0032: 2 and L0759.		H0032: 2			H0032: 2		L0758: 2, H0688: 1	and H0032: 1.	H0032-2	H0032: 2		H0032: 2	H0022. 2	H0032. 2	110032. 2	T10032: 2	H0032: 2	H0032: 2	H0032: 2	H0211: 2	H0212: 2 and H0032		H0032: 1 and H0212:	1.0777.3 1.0662.1
Gly-4 to Ser-11.			Ser-8 to His-17.	Gly-8 to Glu-21,	Val-23 to Ser-37.	Cys-19 to Ser-29,	Ser-31 to Gly-37,	His-48 to Gln-53.	Ser-12 to Gln-18,	Arg-23 to Gly-30.	Gln-13 to Ile-22,			Ile-6 to His-11,	Gly-24 to Val-29.		Ser-13 to Acn-20	Ser-10 to Car-25	T en-30 to Tle 47						Gln-1 to Gly-7,	Thr-22 to Gly-31.		Arg-8 to Phe-20
3576		3577	3578	3579		3580			3581		3582	-	3583	3584		3585	\top	1	T	十	2500	255	1955	3592	3593		3594	3595
1 - 285		53 - 211	44 - 226	3 - 329		87 - 299	١		191 - 27		1 - 183		98 - 241	91 - 330		192 - 299	178 - 336	2-121	3 - 296	3-176	73 160	150 200	130 - 209	3 - 188	258 - 419		127 - 273	295 - 495
688	6	890	891	892		893			894		895		968	268		868	668	906	106	902	903	8 8	5 6	303	906		206	806
953069	0000	703037	509490	971652		585489			236630		968692		655537	655587		655693	960316	655725	939490	964909	655554	162820	170007	000763	849081		708761	967944
HPMLL74	LIDIAN WAY	TILIMIT W 10	HPMSF86	HPRAE13		HPRAN84			HPRAU45	Contract Contract	HPKAZ10		HPRBA65	HPRBE36		HPRBL91	HPRCB11	HPRCB21	HPRCC08	HPRCC61	HPRCN41	HPRCI113	Uppeni	TELENSBIO	HPKTL26		HPRTP73	HPVAB11

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L0803: 1, L0787: 1,	H0672: 1, S0013: 1 and L0747: 1	S0013: 2		L0662: 1, L0774: 1,	L0659: 1, H0672: 1,	S0013: 1 and L0754: 1.	T0069: 1 and S0013: 1.		S0044: 2 and H0618: 1.19q			S0044: 2	AR061: 7, AR089: 3	S0044: 2, L0747: 2,	L0777: 2 and L0480: 1.	S0044: 2		S0044: 2		,	S0044: 2	S0044: 2	,		S0044: 2	S0044: 2	S0044: 1 and S0396: 1.
Gly-36 to Lys-42.		Arg-4 to Ser-20,	Lys-50 to Glu-60.	Ile-22 to Asn-28.			Ser-3 to Gly-11,	Thr-42 to Gly-52.	Arg-39 to Asp-55,	Ala-93 to Ser-99,	Pro-102 to Ser-111.	Asn-6 to Trp-17.	His-18 to Pro-24.			Ala-7 to Thr-13,	Arg-43 to Arg-49.	Arg-44 to His-50,	Gln-62 to Arg-69,	Gln-80 to Trp-87.	Phe-24 to Thr-29.	Glu-10 to Gln-19,	Gln-22 to Lys-27,	Pro-37 to Val-44.	Leu-4 to Lys-9.	Ser-15 to Ser-22.	Leu-43 to Leu-48.
		3596		3597			3598		3599			3600	3601			3602		3603			3604	3605			3606	3607	3608
		108 - 287		2 - 145			204 - 362		116 - 550	1		19 - 156	655 - 266			66 - 227		14 - 289			197 - 367	2 - 157	-		236 - 373	215 - 415	513 - 656
		606		910			911		912			. 913	914			915		916			917	918			919	920	921
		655578		753744			525537		655691			655527	908450			655733		867289			657484	655614			655560	655577	514113
		HPVAF49		HPVAF69			HPVAH36		HPWAF85			HPWAH48	HPWAS77		$\neg \neg$	HPWBA33		HPWBO84				HPWCJ27			HPWCJ67		HPWDA73

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				,																								
	H0648: 1 and S0044: 1	000044.0.17.0220.1	20174: 2 and LU/48: 1.	201/4: 2	H0618-1 H0646-1	and H0040: 1	L0777: 3, H0546: 2.	L0803: 2, L0755: 2,	L0637: 1, L0662: 1,	L0794: 1, H0659: 1 and	L0758: 1.	L0800: 2, L0764: 2,	L0779: 2, H0546: 1,	L0351: 1, L0769: 1,	L0771: 1, L0438: 1,	H0660: 1, L0439: 1 and	L0592: 1.	L0731: 3, H0545: 2,	L0744: 2, L0021: 1,	H0546: 1, L0769: 1,	L0666: 1 and L0665: 1.	L0777: 2, L0005: 1,	H0546: 1, H0328: 1,	L0761: 1, L0373: 1,	L0527: 1, L0526: 1,	L0754: 1, L0752: 1,	L0755: 1, L0731: 1 and	L0608: 1.
	Gln-1 to Gly-8,	Lys-13 to Ser-23.						-					Arg-37 to Gly-48.									Gln-1 to Phe-10.						
5344	3609	3610	3611	3612	3613		3614					3615						3616				3617						
53 - 373	15 - 164	193 - 342	74 - 268	138 - 254	2 - 409		638 - 489					1 - 150		ı				2 - 307		_	(11	011 - 826						
2657	922	923	924	925	926		927				6	876					300	676		·	020	056			•			
716228	961529	537333	655713	655591	710354		705322	•			705420	103439					711000	00011/			200030	/00000				- .		-
	HPWDA86 961529	HPWDD72	HPWSB35	HPZAB38	HSWAC73		HSWAD39				Hembhoe	000 TEN STIT			•		UCW/DIAO				HSW/BO34							

																	11.2 600964,	602026					•		
038: 1				747: 2.	55: 1,	0758: 1.			38: 3.	59: 1 and			758: 7,	0616: 1.	H0616:		3616: 6, 10p12-p11.2	9: 1 and		7.58: 7,		58:2			H0616:
H0618: 2, H0038: 1	and H0616: 1.	H0038· 3	H0038: 2	H0038: 3, L0747: 2.	H0618: 1, L0665: 1	L0779: 1 and L0758: 1			L0758: 6, H0038: 3.	H0616: 1, L0659: 1 and	L0779: 1.	Ι	H0038: 11, L0758: 7,	L0753: 2 and H0616: 1	H0038: 1 and H0616:	1.	H0038: 12, H0616: 6,	H0593: 1, L0439: 1 and	110020: 1.	H0038: 11, L0/58: 7,	T PUR 2 : C C C C	H0616: 4, L0758: 2	and H0038: 1.		H0038: 1 and H0616:
Gln-1 to Met-10,	Met-16 to Lys-21,	Pro-53 to Asn-59	Arg-16 to Thr-28.	Cys-5 to Ser-11,	Pro-13 to Thr-18,	His-28 to Arg-33,	Arg-40 to Arg-45,	Pro-52 to Arg-57, His-66 to Gln-71				Arg-1 to Pro-9.	Thr-5 to Glu-11.		Val-6 to Lys-13.				Clr. 11 to T 24	His-60 to Len-67	Arg-85 to Ser-92.	Glu-13 to Trp-29,	Thr-31 to Thr-44,	Arg-54 to Ser-71.	
3618		3619	3620	3621					3622			5345	3623		3624		3625		3636	0700		3627			3628
34 - 513		1 - 315	50 - 187	1 - 246					87 - 326			330 - 91	238 - 116		199 - 104	30,	423 - 202		3-676	070		10 - 324			2 - 130
931		932	933	934					935			2658	936		937		938		030			940			941
923070		537136	504353	961232					835805			954433	537271		787500	0,000	230/06		963538			966113			783328
HTEAA54		HTEAB52	HTEAD32	HTEAD95					HTEAF07				HTEAF26		HTEAG50		HIEAKS/		HTFAL28			HTEAP91			HIEAR84

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L0758: 3, H0616: 2 and H0038: 1	L0758: 3, H0038: 2, L0794: 2 and L0779: 1.	H0038: 2 and H0616:	AR054: 7, AR051: 2, AR089: 1, AR061: 0 L0663: 2, H0038: 1,	H06/2: 1 and L07/9: 1.	H0038: 2 and H0616:	-	H0038: 7, H0253: 1,	H0616: 1 and L0151: 1.			,		H0038: 2, H0328: 1	and H0616: 1.	H0038: 2 and H0616:	2.	H0038: 1 and H0616:	Ι.	H0038: 2, H0040: 2	and L0758: 1.	H0038: 2	AR061: 1, AR089: 0
Lys-17 to Lys-26.	Tyr-14 to Ser-19.		Pro-32 to Asn-39.	Asn-28 to Cvs-34	Pro-44 to Ser-50.		Ser-86 to Thr-97,	Gln-104 to Pro-116,	Glu-168 to Ser-182,	Thr-190 to Ser-198,	Glu-208 to Tyr-213,	Ser-230 to Val-237.	Glu-38 to Ala-46.		Ser-39 to Val-49.	1	Lys-1 to Asn-14.		Lys-24 to Val-32.			Ile-11 to Trp-17,
3629	3630	3631	3632	3633	3634		3635						3636		3637		3638		3639		3640	3641
368 - 520	280 - 143	286 - 501	1 - 321	13 - 252	3 - 152		3 - 971						373 - 540		185 - 334		106 - 552		201 - 359		250 - 417	3 - 356
942	943	944	945	946	947		948						949		920		951		952		953	954
927010	679390	793441	887782	967959	779134		779265						742218		693377		953904		854052		508150	960427
HTEAV43	HTEAY67	HTEAZ54	HTEBC74	HTEBD35	HTEBD40		HTEBJ78						HŢEBP39		HTEBS30		HTEBS77		HIEBS80		T	HTEBY08

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H0038: 4	H0038: 2	H0616: 3 and H0038:	5.				,	H0038: 2 and H0616:	1.	H0253: 1, H0038: 1 and L0758: 1.	H0038: 2 and H0616:	1.	H0038: 4 and H0616:	•	H0038: 2 and L0779:		AR061: 596, AR089:	427	H0038: 2, H0616: 1	and L0439: 1.	AR061: 49, AR089: 45	H0038: 2	H0038: 2, L0748: 2,	L0749: 2, L0769: 1,	L0776: 1, L0659: 1 and	L0663: 1.	H0038: 2	
Arg-52 to Glu-65.	Lys-66 to Thr-72.	Arg-1 to Phe-12,	Met-34 to Lys-39,	Lys-46 to Ser-56,	Pro-72 to Lys-79,	Lys-101 to Asp-107,	Trp-139 to Lys-148.			Glu-9 to Arg-24, Arg-32 to Thr-40.			His-27 to Leu-39.		Glu-8 to Lys-17.		Asn-1 to His-6,	Arg-117 to Cys-126.			+						Arg-22 to Tyr-28, Ser-78 to Arg-87	0
	3642	3643						3644		3645	3646		3647		3648		3649				3650		3651				3652	
	1 - 231	1 - 546						106 - 243		1 - 435	2 - 121		1 - 204		111 - 389		1 - 387				792 - 406		96 - 248				3-311	
	955	926						957		958	656		096		961		362				963		964				965	
	526281	923026						711523		967340	958381		507053	,	764416	3,000	911369				947605		208860				870692	
	HTEBY15	HTEBY28						HTEBY41		HTEBY61	HTEBZ21		HTECA13	, , , , , , , , , , , , , , , , , , ,	HIECAI6	THE PARTY	HIECAZI				HTECA32		HTECA51				HTECA83	

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H0038: 3	H0253: 1 and H0038: 1.	H0038: 2 and H0616: 2.	H0038: 1 and H0616:	H0038: 4, H0616: 3,	H0038: 2 and H0616:	H0038: 2 and H0616:	H0038: 2				0.00011	H0038: 2	H0038: 2	H0616: 14, H0038: 12,	H0618: 6, H0253: 5,	L0758: 5, L0768: 4,	H0411: 2, L0779: 2,	L0151: 1, L0697: 1 and	S0398: 1.	H0038: 2
Tyr-1 to Arg-6, 11e-49 to Val-55.		Arg-1 to Arg-11, Arg-55 to Ser-70, Ser-76 to Glv-81		Arg-15 to Leu-21,	Asn-60 to 1 ve 68	Gln-18 to Trp-29, Arg-46 to Val-52	Ala-10 to Thr-17,	Glu-19 to Glu-28,	Thr-36 to Trp-44,	Ile-47 to Gly-54,	Ma-01 to F10-09.	Pro-0 to Cys-11, Pro-77 to His-92.		Arg-1 to Ala-35, -	Gly-41 to Lys-61.					Val-9 to His-36.
3653	3654	3655	3656	3657	3658	3659	3660				3661	2001	3662	3663						3664
32 - 271	61 - 270	763 - 1005	1 - 147	203 - 463	84 - 287	37 - 459	1 - 297				130 401	170 - 471	154 - 411	2 - 508						1 - 141
996	296	896	696	970	971	972	973				07.4	t	975	926	,					977
921070	971673	963353	508143	844558	790937	796820	508138				050871	10000	508108	973163						518124
HTECB21	HTECC13	HTECC20	HTECC37	HTECC38	HTECC66	HTECC80	HTECC85				HTECCOK	2000		HTECD18						H1ECD36

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H0038: 2, L0794: 2,	L0779: 2, H0616: 1 and 1.0758: 1	H0616: 4, H0038: 2	and L0758: 1.			H0038: 2	H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	L0766: 2, H0038: 1	and H0616: 1.	H0038: 2		H0038: 2	H0038: 2		H0038: 2			H0616: 2 and H0038:					H0038: 2	H0038: 2	
His-8 to Arg-15,	Lys-19 to Lys-36.	Gly-2 to Ala-8,	Pro-10 to Thr-18,	Pro-23 to Ser-34,	Pro-45 to Asp-55.	Ile-1 to Gly-9.	Ser-29 to Gly-35,	Asp-85 to Val-92.				Ile-1 to Arg-13,	Glu-25 to Leu-31.		Glu-1 to Thr-6,	Glu-30 to Met-43.	Gly-2 to Arg-19,	Arg-24 to Gly-29,	Lys-48 to Arg-54.	Asn-37 to Val-42,	Lys-82 to Glu-95,	Glu-100 to Leu-105,	Tyr-114 to Ser-120,	Leu-129 to Lys-134.		Gln-61 to Cys-76,	Ile-95 to Asp-111.
3665		3666				2998	3998			3669		3670		3671	3672		3673			3674		-	•		3675	3676	
3 - 161		3 - 275				2 - 286_	2 - 286			2 - 352		2 - 253		3 - 296	123 - 257		3 - 164			2 - 418					141 - 329	1 - 423	
8/6		626				086	186			982		983		984	985		986			284					988	686	
527207		727422				620494	764830			790894		522983		522984	522964		522966			964734					522973	925527	
HTECD62		HTECD75				HTECE09	HTECE44			HIECE45		HTECE69		HTECE91	HTEDF13		HTEDF23			HTEDF57					HTEDF76	HTEDG16	

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			1.	· -			1	,									8p12-p11.2	•							
H0616: 2 and H0038:	H0038: 3	H0038: 2, H0616: 2, L0769: 1, L0794: 1,	L0779: 1 and L0758: 1. H0038: 1 and H0616:	1.	AR061: 14, AR089: 12	H0618: 2, H0634: 2,	H0038: 1, H0616: 1 and	L0758: 1.	H0038: 2, H0616: 2,	L0740: 1 and L0758: 1.	H0038: 3	H0038: 2	L0740: 2 H0615: 1	H0428: 1, H0038: 1	L0662: 1, L0805: 1,	L0661: 1 and L0751: 1.	H0038: 2 and H0616:	1.							
	Arg-1 to Glu-9, Thr-42 to Arg-49	0	Asn-1 to Ser-14,	Glu-103 to Gly-108.	Glu-7 to Lys-13,	Asp-29 to Leu-34,	His-83 to Pro-91,	Ser-106 to Thr-111.	Lys-18 to Arg-24,	Pro-30 to Thr-35.	Pro-20 to Thr-29.		ı				Pro-31 to Ala-40.	•							
3677	3678	3679	3680		3681				3682		3683	3684	3685				3686						_		
169 - 324	3 - 170	33 - 206	1-411		121 - 705		,		65 - 544		274 - 549	43 - 165	3 - 305				3 - 257					•			
066	991	992	993		994				995		966	997	866	•			666								
761752	522764	522765	957762		921243				932292		536477	519940	771404				960303								1
HTEDG34	HTEDH21	нтерн22	HTEDH54	Out Charles	HIEDI02				9IIGHIH		\neg	\neg	HTEDJ30			_	HIEDMOS						•		

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H0038: 2	H0038: 2	H0553: 1 and H0038:	H0038: 4	H0038: 1 and H0616:	H0038: 2	H0038: 2	AR061: 7, AR089: 3	L0758: 4, H0038: 2	and H0616: 1.	H0616: 2, H0038: 1	and L0758: 1.			H0038: 2	L0070: 2, H0038: 1	and H0616: 1.	H0038: 2		L0731: 6, L0758: 3,	H0618: 1, H0038: 1 and	L0794: 1.	H0038: 2 and H0616:	2.	H0038: 2	H0038: 3, L0438: 2,
Pro-1 to Trp-9,	Arg-8 to Ser-20.				Ser-9 to Ala-15.					Pro-11 to Cys-28,	Ser-41 to Leu-55,	Pro-58 to Asn-63,	Phe-67 to Ser-77.		I		Ala-25 to Thr-32,	Lys-46 to Gly-52.	Ile-2 to Gly-8.	•	~	Lys-16 to Ser-22.			Phe-37 to Ser-49.
3687	3688	3689	3690	3691	3692	3693	3694			3695				3698	3697		3698		3699			3700		3701	3702
101 - 271	3 - 164	130 - 231	1 - 321	68 - 337	152 - 322	1 - 345	3 - 206			53 - 475		,		318 - 494	88 - 171		53 - 238		137 - 706			2 - 730		3 - 164	324 - 566
1000	1001	1002	1003	1004	1005	1006	1007			1008				1009	1010		1011		1012			1013		1014	1015
870711	530592	964379	870675	870548	839532	536821	530589			795332				530586	761585		530451		82008			932315		921114	523959
HTED031	HTEDO51	HTED059	HTEDP15	HTEDP31	HTEDP32	HTEDP83	нтерозо			HTEDQ72				HTEDQ83	HTEDR71		HTEDR91		HTEDU45			HTEDU48		HTEDV02	HTEDX22

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H0616: 1 and L0439: 1.	H0038: 2	H0616: 2 and H0038: 1.	H0616: 3, L0759: 3,	H0038: 1, L0774: 1 and	L0777: 1.	H0038: 2	H0169: 2 and H0038:	- 1	H0038: 2 and L0779:	1.	H0038: 5 and H0618:					H0038: 2 and H0616:	1.	H0038: 2, L0758: 2	and L0779: 1.	H0038: 2				H0038: 3		H0038: 2
	Arg-1 to Asn-13, Met-37 to Pro-47.	Lys-28 to Lys-41.	Asp-67 to Asn-72,	Pro-113 to Gly-121.		Glu-11 to Gln-18.	His-1 to His-10.		Gln-9 to Asn-26.		His-19 to Lys-55,	Pro-72 to Ser-84,	Ser-92 to Gly-104,	Ser-111 to Asp-124,	Thr-129 to His-141.	Ser-1 to Gly-14,	Lys-28 to Ser-37.			Pro-5 to Gln-13,	Thr-40 to Arg-45,	Thr-52 to Gln-57,	Phe-59 to Gly-64.	Glu-9 to Val-15,	Glu-24 to Pro-30.	Pro-8 to Leu-13.
	3703	3704	3705			3706	3707		3708		3709					3710		3711		3712				3713		3714
	172 - 357	3 - 140	151 - 762			189 - 326	86 - 199		271 - 549		100 - 615		,			1 - 216		202 - 384		88 - 345				72 - 215		2 - 328
	1016	1017	1018			1019	1020		1021		1022					1023		1024		1025				1026		1027
	530452	771505	922964			530580	925399		523962		924818					968517		530157		924840				507814		524059
	HTEDX55	HTEDY38	HTEDY54			HTEDY57	HTEEA03		HTEEB18		HTEEB33					HTEEC10		HTEEE65		HTEEF31				HTEEH31		HTEEU23

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H0038: 1 and H0616: 1.	H0038: 3	H0038: 2 and L0779: 1.	H0038: 2	H0038: 4, L0779: 2, L0758: 2 and L0618: 1.	H0038: 2	H0038: 2	H0616: 2 and H0038: 1.	H0038: 2 and H0616: 1.	H0038: 2	H0038: 1 and H0616: 1.	H0038: 4 and H0616: 1.	L0776: 3 and H0038: 2.	H0038: 3	H0038: 1 and H0616: 1.	H0038: 2	H0616: 4 and H0038: 1.
Pro-32 to Asp-39, Lys-57 to Gly-65.	Ser-1 to Ser-8, Ser-11 to Trp-19.	Asn-2 to Lys-8, Lys-16 to Asp-23, Arg-28 to His-51.	Pro-24 to Ala-38.						Phe-3 to Val-24.			Met-41 to Ile-46.	Arg-1 to Gln-22.			
3715	3716	3717	3718	3719	3720	3721	3722	3723	3724	3725	3726	3727	3728	3729	3730	3731
128 - 343	106 - 240	136 - 393	48 - 311 -	55 - 507	1 - 147	103 - 222	298 - 429	266 - 493	150 - 73	240 - 416	3 - 260	124 - 321	119 - 352	1 - 168	118 - 195	273 - 662
1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044
530199	698315	960127	523957	917206	530095	935982	771355	959854	529272	770270	629369	507219	711399	836010	920604	787550
HTEEU52	HTEEU88	HTEEU92	HTEEV53	HTEEW73	HTEEZ95	HTEF153	HTEFM31	HTEFN15	HTEFO32	HTEFO76	HTEFP14	HTEFP50	HTEFP61	HTEFS60	HTEFU46	HTEFW55

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H0038: 2 and H0616: 1.	H0038: 1 and H0616:	H0038: 3	H0038: 3	H0038: 15, L0758: 5,	H0618: 1, H0253: 1,	H0038- 2	H0038: 2, L0779: 2	and L0758: 2.		H0038: 1 and H0616:			H0038: 2	H0038: 2	H0038: 1 and H0616:		H0038: 2	H0038: 2	H0038: 2	AR089: 1, AR061: 0 11q25	H0038: 2	H0038: 2
Arg-1 to Asp-7, Trp-24 to Cys-29, Ser-68 to Ile-73.	Arg-3 to Leu-10, Gln-34 to Glu-41,	Lys-1 to Thr-6.		Val-11 to Ser-19.	-	Lvs-7 to Tvr-19	Lys-6 to Lys-16,		 Ser-84 to Trp-89.	Gln-6 to Ser-11,	Ser-15 to Gly-31,	Ser-69 to Lys-93.	Asn-1 to Pro-9.	Thr-1 to Ala-7.	Glu-25 to Trp-31,	Lys-49 to Ser-54.			Pro-13 to Lys-25.	Ala-15 to Tyr-24,	His-32 to Asp-39.	Asn-38 to Glu-47.
3732	3733	3734	3735	3736		3737	3738			3739			3740	3741	3742		3743	3744	3745	3746		3747
35 - 358	1 - 279	268 - 35	2 - 139	2 - 1519		190 - 306	2 - 298			190 - 468			2 - 334	210 - 407	76 - 267		144 - 335	2 - 217	3 - 143	84 - 263		1 - 183
1045	1046	1047	1048	1049		1050	1051			1052			1053	1054	1055		1056	1057	1058	1059		1060
528019	961061	842047	656077	964198		715583	503300			869/96			528017	614242	099962		954115	528007	520046	675087		520037
HTEFW56	HTEFW78	HTEFX53	HTEGA13	HTEGA17		HTEGA43	HTEGA47			HTEGD11			HTEGE44	HTEGF78	HTEGF95		HTEGG07	HTEGG61	HTEGK51	HTEGM38		HTEGN63

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AR089: 1, AR061: 0 H0038: 2, L0745: 2 and H0616: 1.	L0794: 15, H0616: 13, H0038: 7, H0253: 1 and 10758: 1	H0038: 2	H0038: 2	H0038: 3	H0038: 2	H0038: 2, L0758: 2,	H0294: 1 and H0616: 1.	H0038: 2	H0038: 3 and L0758:	H0038: 2 and L0758:	H0038: 3 and H0616:	H0253: 8, H0038: 2,	H0179: 1, L0151: 1 and 1 0758: 1	H0038: 2 and H0616:	H0038: 8, L0758: 5,	L0794: 4, H0616: 2, L0763: 1 and L0777: 1.	H0038: 2
Pro-12 to Tyr-21.	Lys-28 to Lys-34, Glu-42 to Ser-48, Ser-53 to Phe-63	Val-3 to Ser-8, Cvs-35 to Lvs-45.	Glu-8 to Ile-22.			Pro-35 to Glu-43,	Gly-52 to His-57.		Arg-1 to Thr-11.	1	Ala-1 to Tyr-14, Thr-28 to Ser-60	Asn-44 to Asp-49,	Ala-91 to Thr-97.				Thr-14 to Gln-20,
3748	3749	3750	3751	3752	3753	3754		3755	3756	3757	3758	3759		3760	3761		3762
3 - 884	134 - 433	2 - 187	23 - 196	160 - 402	131 - 352	220 - 405		155 - 355	200 - 367	170 - 463	2 - 205	39 - 506		3 - 98	194 - 595		220 - 399
1061	1062	1063	1064	1065	1066	1067	,	1068	1069	1070	1071	1072		1073	1074		1075
932583	923059	573865	959871	871611	527914	458520		506653	820028	716783	520041	524053		573885	764831	-	888656
HTEGO05	HTEGQ21	HTEGQ74	HTEGR56	HTEGR88	HTEGS16	HTEGS34		HTEGS93	HTEGT29	HTEGT33	HTEGU13	HTEGU32		HTEGU62	HTEGU93		HTEGV08

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			20q13.2-q13.3 118504,	131242,	139320,	139320,	139320, 602025.	602235		-	=											
	H0038: 1 and H0616:	L0758: 8, H0038: 3, H0618: 2, H0616: 2 and H0253: 1.	2041				ı		nd H0616:			10038: 3,	0616: 1,	L0794: 1.	nd H0616:				AR051:	3, AR054:		0616: 2
	H0038: 1 a	L0758: 8, H0038: 3, H0618: 2, H0616: 2 a H0253: 1.	H0038: 2		\				H0038: 3 and H0616:			L0758: 5, H0038: 3,	H0618: 1, H0616: 1,	L0768: 1 and L0794:	H0038: 1 and H0616:	H0038-2	H0038: 5	H0038-3	AR050: 13. AR051:	13, AR061: 3, AR054:	1, AR089: 1	L0758: 5, H0616: 2
Cys-23 to Glu-31.	Tyr-12 to Phe-17, Pro-32 to Asp-39.		Ser-24 to Gln-30, Asn-38 to Leu-44,	Pro-46 to Glu-59.					Gly-1 to Ile-7,	Pro-76 to Ala-82,	Asn-86 to Ile-91.	Asn-1 to Asp-9,	Pro-17 to Cys-23.		Arg-87 to Tyr-92.		Glv-23 to Lvs-29.		Ser-32 to Thr-37,	Ser-161 to Cys-167.		
	3763	3764	3765						3766			3767			3768	3769	3770	3771	3772			
	80 - 418	234 - 449	1 - 243						1 - 351			200 - 556			2 - 388	91 - 312	90 - 350	198 - 326	719 - 84			
	1076	1077	1078						1079			1080		100	1081	1082	1083	1084	1085			
	822954	870240	573880						794350		0000	/83829		, , ,	91/214	573849	870707	526704	973071			
	HTEGV60	HTEGV84	HTEGW41 	·				, Canal Luna	HIEGW94 794350		TTT CITY	HIEGX/4		TITTECATOR	ALEGYOL	HTEGY85	HTEHB07	HTEHC20	HTEHC47			

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and H0038-1	H0616: 3 and H0038:	2.		H0038: 2				H0038: 1 and H0616:	1.	H0616: 2, H0038: 1	and L0794: 1.		,	H0038: 3 and L0519:		H0038: 2					H0038: 2 and H0616: 1.	H0038: 4		H0618: 1, L0023: 1,	H0038: 1, H0616: 1 and	L0758: 1.	L0758: 3, H0038: 2	and L0747: 1.
	Thr-44 to Ala-49,	Pro-60 to Arg-67,	Asp-83 to Lys-95.	Ala-1 to Leu-9,	Thr-11 to Gly-19,	Arg-31 to Thr-39,	Gln-44 to Ser-58.	Glu-57 to Pro-63.		Ala-2 to Asn-7,	Glu-47 to Ile-62,	Pro-71 to Trp-81,	Gly-83 to Glu-88.	Ser-1 to Arg-6,	Gly-16 to Glu-26.	Gln-1 to Asp-17,	Ser-51 to Arg-63,	Pro-70 to Asp-78,	Val-86 to Asn-93,	Pro-100 to Asp-105.		Ala-1 to Tyr-6,	Ala-60 to Asp-95.				His-16 to Ser-22,	Ala-77 to Glu-83.
	3773			3774				3775		3776				3777		3778					3779	3780		3781			3782	•
	74 - 358			2 - 256				2 - 223		143 - 652				194 - 301		3 - 329					201 - 332	2 - 436		57 - 695			262 - 534	
	1086			1087				1088		1089				1090		1091					1092	1093		1094			1095	
	866596			573882				795264		784926				932312		790342					667224	836999		933624			935984	
	HTEHC60			HTEHC78				HTEHE60		HTEHE67				HTEHE78		HTEHE91					HTEHF13	HTEHF66	· · ·	HTEHG44			HTEHI06	

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AR089: 5, AR061: 5 H0038: 4	H0038: 2	H0038: 2 and H0616:	1. H0038: 3	H0038: 2	H0038: 4	H0038: 2	H0038: 2		H0038: 2				H0616: 2, H0038: 1	and T0069: 1.								H0038: 2 and H0616:	2	L0758: 3, H0038: 2,	H0616: 2 and L0794: 1.	
	Arg-1 to Gly-9,	TIVES TO MATERIA.	Lvs-9 to Pro-14.		Thr-16 to Met-39.		Gln-2 to Leu-8,	Asp-42 to Gly-47.	Glu-17 to Trp-27,	Leu-29 to Phe-34,	Leu-56 to Arg-61,	Asn-74 to Gly-83.	Pro-9 to Asp-16,	Gln-30 to Gln-36,	Pro-69 to Ile-74,	Val-78 to Pro-87,	Ala-99 to Lys-112,	Lys-117 to Gly-124,	Lys-130 to Val-147,	Ala-151 to Phe-156,	Lys-180 to Asp-186.	Glu-13 to Pro-27,	Leu-30 to Arg-37.	Lys-5 to Glu-14,	Arg-53 to Lys-60,	Met-77 to Gln-83.
3783	3784	3785	3786	3787	3788	3789	3790		3791				3792									3793		3794		
216 - 458	3 - 350	1 - 282	1 - 330	136 - 249	2 - 301	2 - 274	73 - 231	-	3 - 404				63 - 677									66 - 215		37 - 285		
1096	1097	1098	1099	1100	1101	1102	1103		1104				1105									1106		1107		
526687	533960	922559	870629	530749	660875	771432	573866		213829	•			787521									920625		967443		
HTEHI14	HTEHI54	нтен162	HTEHI93	HTEHJ64	HTEHK40	HTEHK70	HTEHK81		HTEHL96				HTEHO56									HTEHP02		HTEHP20		

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H0038: 3	H0038: 2	H0616: 2, H0038: 1	H0038-2	2		٠		H0038: 2	AR061: 5, AR089: 2	H0038: 2	H0038: 2, H0616: 2	and L0758: 2.	H0038: 1 and H0616:	1.	H0038: 2	AR061: 8, AR089: 3	L0780: 3, L0759: 3,	H0038: 2, L0779: 2,	H0673: 1, L0803: 1,	L0804: 1, L0666: 1 and	H0648: 1.	H0038: 1 and H0616:			H0038: 2	H0038: 3, L0740: 2	MIN LOT TO: 1.
Arg-2 to Arg-17.	Glu-18 to Ser-26.		His-1 to Ser-8.	Asp-15 to Gln-50.	Val-54 to Ser-67,	Glu-76 to Lys-86,	Ala-90 to Arg-105.	Phe-43 to Glu-49.	Gly-70 to Gly-75.				Lys-1 to Arg-6,	Glu-23 to Arg-29.	,	Phe-32 to Asn-37,	Phe-73 to Tyr-79.		,		,	Ala-1 to Gly-8,	Ser-52 to Lys-58,	Leu-81 to Asn-86.			
3795	3796	3797	3798	1				3799	3800		3801		3802		3803	3804						3805			3806	3807	
7 - 126	210 - 434	1 - 135	3 - 320			,		3 - 197	1 - 237	-	61 - 234		109 - 294		76 - 276	1 - 357						2 - 466	*		181 - 453	2 - 163	
1108	1109	1110	1111					1112	1113		1114		1115	,	1116	1117	**					1118			1119	1120	
531505	573853	751866	573830					573841	529280		573813		786378	200000	8/0083	920610						785652			924832	760552	
HTEHP50	HTEHP60	HTEHP67	HTEHP80					HTEHR83	HTEHS19		HTEHU20		HTEHU68	T. T	HIEHU/3	HTEHV72						HIEHV86			нтенwоз	HTEHW21	

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						16q24.1	1																		
H0616: 3, H0038: 2 and L0758: 1.		L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and H0253: 1.	H0038: 2	H0038: 3	H0618: 2, H0038: 1	and L0783: 1.	H0038: 3	AR061: 7, AR089: 4	H0038: 4, H0616: 3,	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0038: 4 and H0616:	4		H0038: 2	H0038: 3	H0038: 2	H0038: 3 and H0616:	1.
Pro-4 to Lys-14, Thr-17 to His-22,	Glu-25 to Arg-49, Pro-78 to Gly-85, Pro-120 to Phe-126.	Arg-19 to Asn-24,	Gly-30 to Gin-47.						Gln-1 to Ser-10,	Arg-18 to Thr-27,	Arg-36 to Gln-65.			1				His-16 to Ser-21,	Ser-33 to Gly-60,	Asp-87 to Glu-95.	Ser-5 to Ile-17.	Leu-41 to Arg-55.		Thr-65 to Thr-71,	Arg-92 to Glu-99.
3808		3809		3810	3811	3812		3813	3814									3815			3816	3817	3818	3819	
15 - 410		3 - 215		84 - 212	17 - 292	2 - 343		10 - 225	3 - 308		ı							173 - 457			139 - 249	135 - 326	58 - 192	3-311	
1121		1122		1123	1124	1125		1126	1127									1128			1129	1130	1131	1132	
924826		772643		668553	527167	859130		721831	660896									958355			573828	699470	573826	520113	
HTEHX03		HTEHX32		HTEHX51	нтенх92	HTEIA60		HTEIA80	HTEIB14									HTEIF40				HTEIG32		HTEIJ17	

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H0038: 1, H0616: 1	and L0731: 1.	H0038: 1 and H0616:	-	H0038: 1 and H0616:	1.	H0038: 2 and H0032:		H0038: 2	H0038: 1 and H0616:	1.	AR061: 1, AR089: 0	L0758: 4, L0617: 2,	L0794: 2, H0253: 1,	H0038: 1, H0616: 1,	L0789: 1 and L0779: 1.	H0038: 3	H0038: 2				H0616: 2 and H0038:		H0038: 2			H0038: 1 and H0616:
Ser-7 to Ile-13,	Arg-21 to His-26, Met-33 to Ser-49.	Pro-38 to Gln-54.				His-8 to Ala-24,	Thr-26 to Lys-33.	Thr-24 to Thr-39.	Thr-41 to Lys-46,	Arg-57 to Trp-62.	Glu-13 to Thr-27.						Lys-15 to Lys-29,	Lys-36 to Thr-42,	Val-48 to Thr-55,	Gln-61 to Glu-80.	Gly-1 to Gly-6,	Leu-28 to Asn-33.	Gly-1 to Gly-6,	Pro-12 to Pro-17,	Arg-27 to Pro-40.	Asn-28 to Asn-33.
3820		3821		3822		3823		3824	3825		3826					3827	3828				3829		3830	-		3831
1 - 186	•	40 - 255		1 - 69		149 - 409		2 - 121	104 - 292		42 - 443			,		83 - 271	2 - 331				1 - 246		74 - 346			159 - 545
1133		1134		1135		1136		1137	1138		1139					1140	1141				1142		1143			1144
712520		958241		772402		967431		530454	789121		953803					523681	520045				760551		753210			839884
HTEIJ41		HTEIJ73		HTEIJ77		HTEIK11		HTEIK70	HTEIK90		HTEIL07					HTEIL48	HTEIL70				HTELL71		HTEIN68			HTEIN95

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H0038: 2 and H0616:	H0038: 3	H0038: 2	AR089: 1, AR061: 0	H0038: 2 and H0253:	1.	H0038: 4	H0038: 1 and H0616:	1.	H0616: 5, H0038: 2	and H0253: 1.			H0038: 2	H0038: 1 and H0616:	1.	AR061: 3, AR089: 1	H0038: 3	H0616: 8, L0751: 6,	L0753: 6, L0776: 4,	L0758: 4, H0038: 3,	L0759: 2, S0222: 1,	L0770: 1, L0779: 1,	L0731: 1 and L0608: 1.	L0779: 2, H0038: 1	and H0616: 1.		
His-1 to Arg-11.	Phe-27 to Glu-39.		Met-23 to Thr-30.				Lys-1 to Trp-10.		Arg-24 to Glu-38,	Arg-46 to Ser-52,	Pro-74 to Glu-80,	Pro-118 to Ser-126.	Glu-15 to Lys-29.		1	Asp-5 to Arg-13,	Thr-37 to Ser-45.	Ala-1 to Arg-9,	Thr-14 to Trp-20,	Arg-46 to His-53,	Pro-58 to Glu-67,	Tyr-80 to Pro-86,	Ile-151 to Pro-160.	Arg-16 to Ser-23,		Arg-51 to Arg-57,	Gly-62 to Thr-68.
3832	3833	3834	3835			3836	3837		3838				3839	3840		3841		3842						3843			
3 - 347	152 - 334	159 - 356	1 - 252			194 - 370	232 - 462		41 - 472	ř			300 - 458	305 - 547		1 - 339		2 - 712				•		1 - 231	-		
1145	1146	1147	1148			1149	1150		1151				1152	1153		1154		1155						1156			
920622	653244	573803	941155			523892	765794		928058				573775	779163		870652		922027						784657			
HTEIO02	HTEI012	HTEI028	HTEIP88			HTEIP92	HTEIQ74		HTEIR33				HTEIS65	HTEIU75		HTEIU92		HTEIV54						HTEIV86			

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H0038: 6 and H0616:	H0038: 2	H0038: 2, L0758: 2,	L0776: 1, L0809: 1,	L0438: 1, H0658: 1 and	L0756: 1.	H0038: 2	H0038: 1 and H0616:	1.	H0038: 2		H0038: 3 and L0758:				H0038: 3, H0616: 1	and L0758: 1.	H0038: 2	H0038: 2	H0038: 2	H0038: 2 and H0616:	1.	H0616: 2 and H0038:	AP061- A AD080- 1	T 0758-7 T 0794-4	H0038: 2 and L0791: 1.	H0038: 2
		His-33 to Gly-42.					Gly-43 to Ser-48.		Pro-7 to Pro-20,	Pro-33 to Leu-49.	Thr-7 to Glu-16,	Lys-24 to Asp-34,	Thr-40 to Glu-48,	Leu-52 to Lys-57.	Leu-5 to Gly-13.				Gly-47 to Ile-53.	Trp-14 to Glu-21,	Gly-29 to Arg-36.					Lys-9 to Lys-23,
3844	3845	3846				3847	3848		3849		3850				3851		3852	3853	3854	3855		3856	3857	•		3858
124 - 423	68 - 352	204 - 554				2 - 226_	58 - 216		2 - 355	,	188 - 460				144 - 386		115 - 348	216 - 377	3 - 269	167 - 304		156 - 377	2-319			2 - 424
1157	1158	1159				1160	1161	į	1162		1163				1164		1165	1166	1167	1168		1169	1170			1171
829698	573891	836011				864251	963536		577783		955242				523764		528015	530590	870644	573774		772989	098306			520049
HTEIW27	HTEIW37	HTEIX28				HTEIX85	HTEIY52		HTEIY69		HTEIY80				HTEIZ76		HTEJB20	HTEJB25	HTEJB81	HTEJC28		HTEJC95	HTEJE15			HTEJE50

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	AR089: 21, AR061: 15 H0038: 2	H0038: 2	H0038: 2 and H0616:	L0758: 12, L0794: 6,	H0038: 2, L0789: 2,	L0752: 2, L0803: 1 and L0779: 1.	H0038: 1 and H0616:	H0038: 2 and H0616:	1.	H0038: 2	H0038: 2	H0038: 2	H0038: 1 and H0616:	H0415: 1 and H0038: 1.	H0038: 2 and L0747:	1.		H0038: 2	H0038: 2 and H0616: 1.
Lys-30 to Lys-35.	Ser-11 to Ala-19, Glu-24 to Leu-33,	FT0-3 / 10 FT0-43.		Gly-1 to Leu-9,	Cys-15 to Arg-26,	Pro-44 to Arg-50.	Thr-17 to Ala-24.	Thr-1 to Trp-9,	Glu-12 to Arg-17, Pro-23 to Gln-40.		Thr-13 to Asn-19.	His-1 to Cys-7.		Gln-12 to Ser-20.	His-1 to Ser-15,	Glu-29 to Lys-46,	Pro-51 to Gln-63.	Pro-14 to Ser-31.	Lys-1 to Ser-6, Glu-22 to Ser-28,
	3859	3860	3861	3862			3863	3864		3865	3866	3867	3868	3869	3870			3871	3872
	122 - 643	79 - 276	148 - 384	415 - 173			115 - 294	63 - 368	'1	1 - 126	169 - 354	2 - 418	475 - 645	1 - 534	3 - 194			1 - 450	1 - 219
	1172	1173	1174	1175			1176	1177		1178	1179	1180	1181	1182	1183			1184	1185
	942476	526278	774243	573742			952255	958389		558383	573845	914785	916481	767955	965085			676254	573823
	HTEJF45	HTEJG24	HTEJJ43	HTEJL21			HTEJM56	HTEJN10		HTEJN49	HTEJN96	HTEJP10	HTEJP66	HTEJP71	HTEJT37			HTEJT74	HTEJU30

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	H0038: 2	H0038: 2					H0616: 3, H0038: 2	and H0658: 1.	L0758: 4, L0779: 3 and	H0038: 2.	H0038: 2 and H0616:		H0038: 2		H0038: 2		H0038: 5		H0616: 2 and H0038:	1.	H0038: 2 and H0618:	1.	H0616: 3 and H0038:	2.	L0758: 5, H0616: 3	and H0038: 2.		
Ser-48 to Arg-56.	Gly-11 to Thr-17.	Glu-2 to Thr-11,	Asn-35 to Gly-41,	Thr-57 to Asn-63,	Pro-73 to Glu-88,	Pro-101 to Phe-110.	Pro-9 to Trp-16,	Trp-18 to Gly-25.	Arg-3 to Ala-10,	Asp-25 to Trp-31.	Ala-1 to Pro-7,	Arg-13 to Ser-22.	Arg-1 to Pro-12,	Trp-42 to Thr-47.	Gly-1 to Trp-6,	Pro-12 to Ser-20.	Arg-7 to Ser-12,	Trp-36 to Pro-60.	Glu-29 to Ser-36,	Cys-49 to Thr-71.	Pro-22 to His-28.		Glu-19 to Tyr-36,	Glu-48 to Lys-53.	Phe-1 to Gly-19,	Gln-21 to Glu-31,	Arg-79 to Lys-92,	Ser-135 to Leu-145.
	3873	3874	_				3875		3876		3877		3878		3879		3880		3881		3882		3883		3884			
	23 - 337	2 - 388					3 - 440		1 - 252		2 - 121		76 - 402		1 - 291		147 - 338		103 - 315		753 - 1043		130 - 438		1 - 594			
	1186	1187					1188		1189		1190		1191		1192		1193		1194		1195		1196		1197			
	694525	806395					530156		685272		523818		920925		815975		519938		974044		870084	,000	/90381		774260			
	HTEJV62	HTEJX78					HTEJY21		HTEJY27		HTEJZ26		HTEKC07		HTEKC12		HTEKD04		HTEKE41		HTEKE46	000000000000000000000000000000000000000	089YFIH		HTEKF04			

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102770,	188540,	600234,	601414,	601691,	601691,	601691.	601691	601718	602004	1 70700					~								-					
1p13		•									1	· 														,		
H0038: 2					-		•			H0038: 2			H0038: 2 and H0616:	1.	n0038: 2	H0038: 3, L0758: 2,	H0253: 1, H0616: 1,	L0794: 1, L0803: 1,	L0745: 1 and L0588: 1.	H0038: 2	,		· · · · · · · · · · · · · · · · · · ·	H0038: 3 and H0616:	U0038.1 2 3 TTOC16.	11. 1.	H0038: 2	H0038: 1 and H0616:
Arg-43 to Phe-48.										Pro-28 to Gly-33,	Asp-35 to Leu-51,	Leu-61 to Thr-69.	Glu-12 to Glu-19.			Ala-24 to Tyr-31,	Gln-38 to Lys-43.			Pro-7 to Gln-16,	Arg-19 to Gly-32,	Pro-34 to Glu-45,	rne-50 to Leu-65.	Lys-34 to Ala-42.	Pro-8 to Thr 14	110-0 to 110-14.		Lys-62 to Ser-67.
3885										3886			3887	3888	0000	3889				3890				3891	3802	7/00	3893	3894
103 - 267								1		27 - 233	t		1 - 291	3 - 344	140	257 - 682				2 - 247				1 - 264	3-251	1	31 - 165	348 - 569
1198										1199			1200	1201		1202				1203				1204	1205	}	1206	1207
573750										573749			772997	917176	0000	650505				530588			1 2 2 2	745257	723148		870627	784444
HTEKF24										HTEKF35			HIEKF68	HTEKI01	11717170	HIEKI/U				HTEKJ48			, ,,	HIEKM14	HTEKO49			HTEKQ85

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1.	H0038: 1 and H0616:	H0038: 2	AR061: 2, AR089: 1	L0758: 14, H0038: 5,	L0779: 4, L0794: 2 and	H0616: 1.			H0618: 3, H0253: 1	and H0038: 1.		H0038: 1 and H0616:	•	H0038: 1 and H0616:	•	L0758: 10, H0038: 3,	L0794: 2, H0618: 1,	H0253: 1 and H0616: 1.	H0038: 2 and L0758:	1.	H0038: 2	H0038: 2		H0616: 4, L0803: 1	and L0731: 1.	H0616: 3 and L0519:	7.
			Pro-9 to Arg-14,	Phe-34 to Ile-39,	Arg-41 to Lys-47,	Leu-49 to Gly-55,	Lys-104 to Lys-110,	Asp-119 to Gly-124.	Val-1 to Val-8,	Arg-36 to Pro-41,	Thr-50 to Leu-55.	Ser-9 to Ser-17,	Leu-48 to Cys-54.	Gly-46 to Glu-58.		Glu-37 to Asp-46.			-		•	Ile-9 to Asn-20,	Ala-22 to Asp-29.	Lys-8 to Lys-14.			
	3895	3896	3897						3898			3899		3900		3901			3902		3903	3904		3905		3906	
	139 - 318	290 - 427	3 - 569			1			113 - 346			166 - 399		87 - 263		118 - 375			108 - 257		68 - 259	98 - 280		49 - 195		165 - 536	
	1208	1209	1210						1211			1212		1213		1214			1215		1216	1217		1218		1219	
	870555	529273	846714			_			506651			767658		935945		928826			920927		573700	524054		774268		934272	
	HTEKR75	HTEKS15	HTEKS20				•		HTEKS21			HTEKS76		HTEKX06		HTEKX08			HTEKX28		HTEKX70	HTEKZ50		HTELA50		HTELD47	

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H0616: 2	H0616: 3	H0616: 5	H0038: 1 and H0616:	H0616: 2 and H0038.	110010. 2 alla 110036.		H0616: 2	H0038: 1, H0616: 1	and L0745: 1.	H0038: 1 and H0616:	1.	H0616: 2 and L0749:	H0616: 4 and L0758:	ř	H0038: 1 and H0616:	1.	H0616: 2	H0616: 2	H0616: 4	H0616: 2	H0616: 3 and L0779:	H0038: 2 and H0616:	H0616: 11 and H0038:
Arg-1 to Ser-6.		Ala-8 to Ser-13.	Pro-2 to Asp-7.	Val-17 to Val-73	Phe-34 to Tvr-46	Thr-62 to His-67.	Val-1 to Thr-12.	Gln-9 to His-21.		Glu-27 to Thr-34.			Asn-1 to Gln-7,	Phe-27 to Gly-38, Pro-61 to Gly-68.			Arg-21 to Phe-28.				Asn-56 to Ser-66.	Asp-19 to Lys-24.	Leu-21 to Gly-26,
3907	3908	3909	3910	3011	11/0		3912	3913		3914		3915	3916		3917		3918	3919	3920	3921	3922	3923	3924
79 - 267	157 - 438	260 - 475	279 - 455	1-318	010	١	3 - 107	351 - 542		421 - 588		318 - 554	86 - 361		3 - 449		9 - 239	107 - 349	181 - 294	394 - 648	357 - 626	75 - 302	117 - 434
1220	1221	1222	1223	1224		į	1225	1226		1227		1228	1229		1230		1231	1232	1233	1234	1235	1236	1237
779315	963563	791743	757740	870621	130010		773018	766462		923071		806403	966134		794339		870552	923055	783824	952267	952269	786268	926910
HTELD82	HTELE10	HTELE41	HTELG47	HTELG57			HTELG80	HTELH44		HTELI03		HTELISI	HTELJ89		HTELK14		HTELK50	HTELK68	HTELL48	HTELL51	HTELL90	HTELM89	HTELO20

1	H0616: 4	H0038: 1 and H0616.	110030. 1 alid f10010.				H0616: 2	H0616: 2, H0038: 1	and L0754: 1.			H0616: 3	H0616: 2 and H0038:	<u>.</u>	H0616: 2				H0616: 4, L0774: 2,	H0618: 1, L0665: 1 and	L0747: 1.		H0616: 4	H0616: 2	H0616: 2 and L0758:	1.	H0616: 2
His-101 to Trp-106.	Ser-21 to Ser-29,	I ve. 1 to Cve. 7	Lys-1 to Cys-', Lys-16 to Glu-21.	Ser-23 to Thr-37,	Pro-40 to Ser-47,	Glu-49 to Arg-59.	Asn-6 to Ser-12.	Pro-1 to Val-16,	Lys-22 to Asp-30,	Asn-47 to Ala-61,	Arg-89 to Leu-94.		Tyr-1 to Leu-7,	Phe-51 to Asp-60.	Arg-29 to Leu-40,	Gly-50 to Gln-55,	Thr-73 to Ile-83,	Lys-90 to Lys-95.	Thr-7 to Asn-12,	Leu-20 to Ile-29,	Ser-54 to Ser-64,	Met-66 to Gly-77.	Lys-50 to Glu-55.	Lys-1 to Lys-9.	Lys-57 to Gly-63.	•	Asp-1 to Trp-11,
	3925	3026	275				3927	3928				3929	3930		3931				3932				3933	3934	3935		3936
	2 - 166	56-232	100				1 - 204	3 - 470				97 - 462	36 - 344	-	2 - 451				2 - 235				3 - 521	3 - 173	37 - 240		106 - 270
	1238	1239					1240	1241				1242	1243		1244				1245				1246	1247	1248		1249
	931120	761806)				934344	921621				922634	761768		826531				761598			•	780619	915339	934302		963576
	HTELO51	HTELO73					HTEL093	HTELP27	-			HTELQ41	HTELQ87		HTELR90				HTELT72				HTELT83	HTELU01	HTELV06		HTELV10

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	L0758: 16, H0038: 1 and H0616: 1.	H0038: 1 and H0616:	1.		AR089: 7, AR061: 6	H0616: 4, H0038: 1,	L0745: 1 and L0779: 1.			H0616: 4, H0038: 2,	L0768: 1 and L0779: 1.	H0616: 2 and L0758:	1.	H0616: 2	H0038: 1 and H0616:	1.	H0616: 2	H0038: 1 and H0616:	1.	H0616: 2	AR089: 19, AR061: 13 9q31	H0618: 14, H0253: 12,	H0038: 11, H0616: 2,	L0794: 1, L0779: 1 and	L0758: 1.			
Ser-49 to Lys-55.	Thr-17 to Leu-22.	Gly-2 to Ile-19,	Lys-22 to Ala-31,	Asp-49 to Asn-56.	Thr-5 to Ser-11,	Asp-78 to His-85,	Ser-153 to Ser-162,	Glu-221 to Ala-234,	Gly-247 to Glu-252.	Ala-21 to Trp-26,	Arg-64 to Val-83.	Cys-2 to Glu-9.		Gln-3 to Gln-13.			Thr-18 to Gly-25.	Lys-32 to His-41.		Ser-46 to Thr-53.	Gly-23 to Asn-30,	Arg-45 to Lys-50.						
	3937	3938			3939					3940		3941		3942	3943		3944	3945		3946	3947							
	172 - 303	2 - 448			1 - 927					3 - 293		71 - 271		3 - 302	25 - 117		140 - 283	94 - 312		171 - 353	22 - 1167	·	-					
	1250	1251			1252					1253		1254		1255	1256		1257	1258		1259	1260							
	796832	870615			910946					952241		810596		963506	761599		764834	952268		786424	911666							
	HTELV26	HTELV43			HTELV86					HTELW29		HTELW62		HTELX52	HTELX72		HTELY64	HTELZ07		HTELZ89	HTEMA54							

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	H0616: 2	H0616: 3			H0616: 3		-	H0038: 1 and H0616:	1.	L0758: 9, L0794: 3,	H0038: 2, H0616: 2,	L0790: 1 and L0779: 1.	H0253: 3, H0618: 2	and H0616: 1.		H0038: 1 and H0616:		H0616: 2 and L0758:	~;				H0038: 2 and H0616:	H0616.2	110010. 2	H0616: 6 and L0758:	H0616: 4, H0038: 1
	Thr-6 to Lys-23.	Tyr-4 to Tyr-11,	Ala-20 to Ser-28,	Val-44 to Arg-54.	Leu-25 to Asn-32,	Ala-49 to Phe-56,	Arg-60 to Lys-69.			Lys-49 to Lys-56.			Gln-16 to Gly-27,	Glu-59 to Gly-65,	Ser-107 to Arg-113.	Gln-15 to Arg-21.		Gly-1 to Glu-8,	Glu-16 to Ser-22,	Asp-43 to Gly-49,	His-65 to Met-70,	Lys-79 to Glñ-90.	Ala-20 to Thr-44.	7			
	3948	3949			3950			3951		3952			3953			3954		3955					3956	3957	1000	3958	3959
	75 - 143	103 - 342			141 - 371		4	1 - 306		2 - 292	1		1 - 453			58 - 240		1 - 270					2-310	3-116		248 - 496	388 - 570
	1261	1262			1263			1264		1265			1266			1267		1268					1269	1270		1271	1272
	827055	870614			82028			761602		775593			924727			848193		963546					761783	958386	2000	786377	963531
	HTEMB26	HTEMB28		,	HTEMB34			HTEMB72		HTEMB83			HTEMC18			HTEMC75	\neg	HTEMD10				\neg	HTEMD73	HTEMF08	1017 10011	HTEMJ34	HTEMJ54

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and L0748: 1.	H0038: 1 and H0616:	H0616: 5, H0038: 2, L0779: 1 and L0758: 1	H0616: 2	H0038: 1 and H0616:	H0616: 2 and H0038:	H0616: 3	H0616: 3 and H0038:	H0038: 10 T 0758: 7	1.0768: 6. H0253: 4	H0616: 2, L0772: 1,	L0773: 1, L0779: 1 and	L0731: 1.			AR089: 17, AR061: 13	L0794: 2, L0752: 2,	H0616: 1, L0763: 1,	L0766: 1, L0664: 1,	H0670: 1 and L0758: 1.	H0038: 1, H0616: 1	and L0758: 1.	H0038: 1 and H0616:
	Pro-11 to Gly-21, Pro-65 to Ser-71.	Pro-32 to Gly-40, His-54 to Glu-74.	Tyr-16 to Ser-25.			Phe-7 to Glu-12, Leu-22 to Tyr-28.	Gln-29 to Gly-34.	Aro-8 to Ser. 15	Ser-21 to Tro-40.	Glu-63 to Trp-74,	Ser-76 to Ser-81,	Asp-83 to Asp-96,	Glu-125 to Ser-131,	Leu-198 to Leu-206.	Ser-7 to Asp-13,	Leu-49 to Asn-54,	His-62 to Tyr-68.			Arg-1 to Arg-8,	Leu-44 to Ala-50, Ser-58 to Ile-68.	Ser-16 to His-24.
	0968	3961	3962	3963	3964	3965	3966	3967	· •						3968					3969		3970
	45 - 359	353 - 631	10 - 96	54 - 251	2-319	166 - 276	1 - 159	3 - 629							2 - 340					102 - 371		45 - 203
	1273	1274	1275	1276	1277	1278	1279	1280							1281					1282		1283
	923066	989888	958374	789113	880634	771434	767863	932319							606280					963527		832506
	HTEMK03	HTEMM80	HTEMN08	HTEMN95	HTEMO14	HTEMO85	HTEMP48	HTEMP49							HTEMR65					HTEMS10		HTEMS48

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1.	L0758: 4, H0038: 1, H0616: 1 and L0779: 1.				L0758: 3 and H0616:	2.	H0616: 2, L0749: 2	and 110036. 1.	H0616: 3		AR061: 6, AR089: 3	H0616: 2 and H0038:	1.	H0038: 1, H0616: 1	and L0759: 1.	H0616: 2	H0038: 1 and H0616:		H0616: 3	H0616: 2 and L0109:				H0038: 1 and H0616:	1.	H0038: 1, H0616: 1 and S0152: 1.
	Ile-14 to Asp-22, Pro-28 to Gln-43,	Pro-49 to Arg-56,	Pro-62 to Ser-78,	Thr-81 to Glu-89.	Glu-36 to Val-53.		Arg-21 to Pro-26.		Arg-18 to Lys-24,	Thr-29 to Ile-34.	Gly-82 to Lys-89.			Arg-32 to Gly-37.			Pro-20 to Ala-32,	Arg-46 to Val-51.	Ser-29 to Val-39.	Gln-29 to Leu-34,	Arg-36 to Leu-44,	Glu-58 to Ser-64,	Ser-67 to Pro-85.	Ala-6 to Ala-12.		Glu-69 to Leu-79.
	3971				3972		3973		3974		3975			3976		3977	3978		3979	3980				3981		3982
	2 - 268-				2 - 160		112 - 273		43 - 189		23 - 514			46 231		162 - 377	1 - 294		24 - 338	243 - 497				380 - 574		111 - 347
	1284				1285		1286		1287		1288	,		1289		1290	1291		1292	1293				1294		1295
	934338				65226		789623		870618		913795			870662		927021	870601		923050	775544				958378		795316
	HTEMT06				HTEMT89		HTEMU17		HTEMU54		HTEMX92			HTEMY30		HTEMZ04	HTENA22		HTENB03	HTENC22				HTENF08		HTENF95

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			•						11q13.2-q13.3 133780,	151400,	602078	-							
H0253: 3, H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	H0616: 2, H0038: 1 and L0758: 1.	AR089: 30, AR061: 13	H0038: 3, H0616: 2,	L0779: 2, L0768: 1 and	L0790: 1.	H0038: 7, H0124: 1,	H0040: 1, H0616: 1 and L0779: 1.	1 and H0616:				H0616: 3 and H0618:	H0038: 4, H0616: 3.	L0758: 3 and L0779: 1.			H0616: 6, H0618: 3,	H0253: 3 and H0038: 3.
Asn-2 to Glu-14, Pro-17 to Lys-27, Gly-42 to Ser-59, Cys-70 to Lys-81.	His-7 to Ser-12.	Ile-28 to Ser-36.	Asn-17 to Asn-30,	Asp-64 to Gln-69,	Gly-77 to Ser-95,	Lys-109 to Asn-114, Arg-158 to Ser-183.	Thr-6 to Arg-17.		Thr-17 to Ala-25,	Pro-40 to Glu-46,	Asn-76 to Glu-81,	Gln-90 to Lys-104.	Gly-23 to Pro-32.	Arg-15 to Leu-21.	Ala-29 to Glu-34,	Pro-40 to Trp-49,	Ser-82 to Ala-97.	Gly-29 to Glu-39,	Gly-105 to Lys-117, Gln-135 to Leu-142,
3983	3984	3985	3986				3987		3988				3989	3990				3991	
3 - 308	1 - 102	182 - 436	41 - 589				1 - 948	1	3 - 443				249 - 566	192 - 509				76 - 1467	
1296	1297	1298	1299				1300		1301				1302	1303				1304	
840151	967432	784798	917213				58139		767838				835851	844557				917032	
	HTENG93	HTENH86	HTENI58				HTENJ28		HTENJ76				HTENK06	HTENK69				HTEN012	

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				H0038: 1 and H0616:			H0616: 17 and L0758:		H0038: 1 and H0616:			H0038: 2, H0616: 1	58: 1.	H0038: 1 and H0616:		H0038: 2 and H0616:		H0328: 1, H0038: 1	16: 1.				H0038: 1, H0616: 1	18: 1.	-				
Ser-186,	Ser-207,	Asp-220,	Thr-255.		7-15, 1.	rg-40.		1.		-	ly-68.		id.	-			1.		er-85, and H0616: 1.	n-97,	/s-114,	vsn-127.		, (d		s-60,	r-69,	3ln-118,	ro-146.
Pro-180 to Ser-186,	Gln-202 to Ser-207,	Gln-214 to Asp-220,		3992 Asn-1 to Glu-6,	Gln-9 to Gly-15,	Gln-18 to Arg-40.	3993 Arg-13 to Leu-18.		3994 Asp-16 to Leu-22,	Met-37 to Thr-42,	Glu-55 to Gly-68.	3995 His-23 to Ser-34,	His-77 to Glu-82.	3996 Gly-40 to Ala-45,		3997 Gly-1 to Pro-15.		3998 Glu-49 to Ala-55,	Cys-57 to Ser-85,	Ser-90 to Glu-97	Ile-108 to Lys-114		3999 Met-2 to Asn-16,	Gln-30 to Gln-35,	Met-42 to Gln-48,	Ser-54 to His-60,	Pro-63 to Ser-69,	Leu-101 to Gln-118,	Gly-139 to Pro-146.
	,		-	190 - 618 39			17 - 208 39	-	2-496 39			1 - 654 39		24 - 380 39	\dashv	1-456 39	4	201 - 659 39				-	3 - 440 39						
				969213 1305		_	787535 1306	_	775387 1307			928244 1308		963530 1309		764828 1310		920834 1311		-			785996 1312				-		
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H0616: 5, H0038: 3, H0253: 1, L0769: 1, L0794: 1, H0521: 1, L0748: 1, L0779: 1 and L0758: 1.	H0616: 2 and L0517:	AR061: 7, AR089: 3 H0616: 5 and H0038:			H0038: 2, H0616: 2	T 0758: 10 T 0439: 6	H0616: 2, L0803: 2,	L0756: 2, L0455: 1,	HUU38: 1 and LU438: 1.	H0038: 1 and H0616:	H0616: 3						
	Trp-1 to Gln-10.	Gly-5 to Arg-10, Arg-18 to Ser-24,	Glu-55 to Asn-42, Lys-72 to Gln-82,	Lys-112 to Arg-123, Asp-141 to Met-146	Arg-6 to Asp-13,	Gli-1 to I vs-11			4	Ala-17 to Ser-22.	Gln-1 to Ser-19,	Glu-29 to Lys-35,	Leu-58 to Phe-68, Cvs-100 to Arg-107	Cys-113 to Cys-119,	Phe-124 to Asn-139,	Leu-157 to Glu-163,	Ile-174 to Ile-180,
4000	4001	4002			4003	4004				4005	4006						
226 - 756	387 - 725	99 - 617_	,		1 - 243	168 - 359			000	383 - 553	2 - 1009	•					
1313	1314	1315			1316	1317			,	1318	1319						
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	L0779: 9, L0758: 9, L0665: 8, H0616: 4, L0663: 4, H0038: 3, L0755: 3, L0717: 1, L0768: 1, L0666: 1, H0659: 1, H0670: 1, L0748: 1 and L0749: 1.	H0038: 1 and H0616:	H0616: 2 and H0038:	H0038: 1 and H0616: 1.	H0616: 2 and H0038:	H0616: 2 and H0038: 1.	H0038: 1 and H0616: 1.	AR061: 7, AR089: 3 H0616: 3
Pro-195 to Pro-204, Gly-228 to Glu-250, Ile-260 to Asp-266, Thr-273 to His-279, Cys-281 to Gly-291.		Gln-24 to Glu-34, Ala-58 to Ser-64.	Met-56 to Pro-67, Ser-82 to Tyr-87, Pro-111 to Ala-121.	Arg-20 to Gin-27, Arg-37 to His-42, Pro-46 to His-55.	Tyr-3 to Cys-9, Thr-20 to Ile-25, Gly-60 to Arg-67.		Gly-2 to Glu-13, Val-40 to Cys-79.	Val-17 to Arg-23, Tyr-28 to Ser-34, Thr-41 to Cys-47.
	4007	4008	4009	4010	4011	4012	4013	4014
	203 - 454	102 - 377	2 - 400	24 - 329	129 - 428	247 - 411	258 - 632	2 - 262
	1320	1321	1322	1323	1324	1325	1326	1327
	917185	870591	773024	787516	812307	918635	793202	847224
	HTENZ16	HTENZ33	HTENZ72	HTEOA90	HTEOD34	HTEOE61	HTEOF31	HTEOF80

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200210	300310, 301220,	302350,	304050,	304110,	306100,	309530,	309585,	312040						-				,										
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									H0663: 1, H0644: 1,	H0038: 1 and H0616: 1.	H0616: 2	AR089: 36, AR061: 21	H0038: 7, H0618: 1,	H0253: 1 and H0616: 1.			H0038: 1 and H0616:	<u>.</u>			H0616: 2 and H0038:	AR061: 6 AR089: 3		HOG16: 7, LO704: 3,	110010. 2, E0174. 2,	L0/4/: 2, L0803: I,	L0789: 1 and L0590: 1.	H0038: 2 and H0616: I.
		-									Arg-31 to Asp-37.	Pro-17 to Ala-25,	Lys-33 to Arg-40,	Arg-62 to Lys-68,	Ala-79 to Val-93,	Lys-106 to Asp-113.	Arg-1 to Ile-8,	Tyr-12 to Gly-29,	Lys-34 to Ala-64,	Lys-77 to Glu-91.		Pro-27 to Ala-35.	1		-			
								7007	4015		4016	4017					4018	,			4019	4020				_		4021
	,						·	110 061	113 - 364		27 - 164	3 - 410					11 - 295				121 - 408	2 - 520						107 - 271
								1770	1328		1329	1330					1331				1332	1333			-			1334
								760502	700303		918571	870575					810333				918590	815852			-			954114
								UTEODOS	nicores		HTEOF91	HTEOI36					HTEOI53				HTEOK02	HTEON29						HIEON6/

		1		1																								
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H0616: 22	L0766: 5, L0803: 3,	L0470: 1, L0761: 1,	L0764: 1, L0804: 1,	L0805: 1, L0776: 1,	L0789: 1 and L0750: 1.	H0616: 2		AR089: 17, AR061: 14	H0616: 2	H0618: 3, H0616: 2	and H0253: 1.	•			L0758: 9, H0038: 1,	H0616: 1 and S0042: 1.	H0616: 3, L0747: 2,	L0794: 1, L0803: 1 and	L0779: 1.	H0616: 3, L0758: 2,	L0794: 1 and L0366: 1.	H0616: 2 and H0038:	1.	H0616: 4, L0779: 1	and L0758: 1.	H0616: 2	H0616: 4, L0756: 2	and H0038: 1.
	Pro-14 to Phe-23,	Lys-111 to Lys-155.				Ser-30 to His-36,	Arg-54 to Arg-59.	Gly-38 to Val-44.		Arg-1 to Ala-13,	Arg-99 to Arg-104,	Thr-117 to Gln-124,	Asn-132 to Gln-137,	Thr-145 to His-155.	Tyr-34 to Glu-43.		Pro-77 to Ser-83.	ı		Asp-35 to Gly-40.		Leu-2 to Gly-11.		Pro-10 to Asn-16,	Asn-38 to Arg-44.	Cys-5 to Thr-14.	His-7 to Gly-17,	Gly-25 to Leu-36.
4022	4023	•				4024		4025		4026					4027		4028			4029		4030		4031		4032	4033	
320 - 529	22 - 438.					3 - 266		2 - 445		2 - 490					147 - 605		43 - 393			204 - 515		161 - 568		140 - 328		126 - 497	2 - 193	
1335	1336					1337		1338		1339					1340		1341			1342		1343		1344		1345	1346	
915138	870532					918475		870566		869682					958391		872923			772949		782248	70007	10/874		883021	933299	
HTEOU45	HTEOV90					HTEOW02		HTEOW39		HTEOW85					HTEPA08		HTEPA27			HTEPB66		HTEPB84) LOGILIANI	nierc/o		HTEPC87	HTEPD06	

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AR061: 5, AR089: 2 H0369: 1, H0038: 1, H0616: 1, L0593: 1 and L0595: 1.	L0752: 3, H0618: 1, H0616: 1, L0769: 1, L0803: 1, L0789: 1, L0439: 1, L0758: 1 and L0698: 1.	H0616: 3 and H0038: 1.	H0616: 2 and L0758:	H0616: 2 H0038: 1 and H0616: 1.	H0616: 5, L0758: 5 and H0038: 1.	AR061: 25, AR089: 5 L0758: 3, H0616: 2, H0038: 1 and L0779: 1.	H0616: 2 H0616: 2 and H0038:
Asn-30 to Lys-43, Pro-58 to Glu-65, Arg-77 to Asn-85.	Gln-1 to Asn-9, Pro-14 to Leu-20, Leu-42 to Gly-47, Gln-56 to Arg-61, Pro-109 to Ser-114, Lys-119 to Thr-131.	Thr-2 to Ser-12, Arg-60 to Leu-67, Ala-72 to Thr-77, Pro-82 to Lys-91, Gly-96 to Ser-101, Glu-110 to Pro-118, Gln-124 to Leu-129, Gln-132 to Ser-138.	Arg-1 to Asn-11, His-40 to Arg-45.	Arg-1 to Ser-9.	Gly-5 to Pro-15, Ser-23 to His-32.	Pro-8 to Gly-26, Cys-54 to Cys-66, Gly-73 to His-85.	Leu-12 to Pro-17.
4034	4035	4036	4037	4038	4040	4041	4042
2 - 640	3 - 395	25 - 477	305 - 1216	27 - 122	209 - 631	1 - 735	3 - 311
1347	1348	1349	1350	1352	1353	1354	1355
932576	812303	915301	956200	774212	939675	870561	806471 952243
HTEPE28	HTEPG15	нтврно1	HTEPJ09	HTEPJ79	HTEPK40	HTEPM33	HTEPM52 HTEPN07

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1.		H0616: 2, L0779: 2,	110000 1 and 10706. 1.	H0038: 1 and H0616:		H0616: 3 and H0038:	· ·		H0616: 4 and H0038:							H0038: 1 and H0616:		H0038: 2 and H0616:	2.	H0616: 2	H0616: 2 and H0038:	1.	H0616: 2	AR061: 6, AR089: 2	H0616: 3, L0758: 2,	L0768: 1, L0792: 1 and	L0779: 1.	AR089: 11, AR061: 2
Pro-24 to Gly-29,	Ser-34 to Gly-39.	Asn-6 to Asp-16.	000000	Gly-33 to Gly-38,	Gln-61 to His-66.	Ala-35 to Glu-41,	Ile-54 to Glu-74,	Lys-80 to Leu-87.	Gln-8 to Cys-17,	Cys-20 to Gln-26,	Thr-61 to Lys-68,	His-75 to Gly-83,	Asn-88 to Gln-104,	Pro-118 to Leu-126,	Gln-131 to Glu-138.	Lys-86 to Lys-91,	Lys-107 to Lys-139, Leu-155 to Asn-162			Gly-42 to Gly-47.	Pro-66 to Ser-74.			Ser-9 to Ser-17,	Phe-21 to Leu-45.			Ser-10 to Gly-15,
		4044	27.07	4045		4046			4047							4048		4049		4050	4051		4052	4053				4054
		1 - 192		1 - 3/2		12 - 641	1		3 - 866							3 - 545		1 - 168	•	2 - 238	42 - 518		533 - 670	1 - 471				91 - 699
		1357	1350	1358		1359			1360							1361	-	1362		1363	1364		1365	1366				1367
		836572	017707	107/16		947107			785803							698062		787499		870509	870637		915134	917406				820698
		HTEPP23	TTTEBBOO	HIEFF29		HTEPP30		·	HTEPP32							HTEPP92		HTEPR90		HTEPT25	HTEPT75		HTEPU01	HTEPV02				HTEPX32

H0038: 6, H0616: 6,	L0794: 4, L0768: 1 and	L0758: 1.		H0616: 2 and L0758:	2.	H0618: 1 and H0616:	1.	H0616: 4		L0758: 7, H0618: 1,	H0616: 1, L0794: 1 and	L0779: 1.	H0616: 2 and H0038:	1.	H0038: 2 and H0616:	1.		H0616: 3 and H0038:	1	•	H0616: 2, L0803: 1	and L0774: 1.		H0038: 2 and H0616:	H0038: 1 and H0616:			H0038: 1 and H0616:
Pro-20 to Ser-27,	Glu-34 to Gly-41,	Ala-45 to Trp-50,	Pro-79 to Gly-88.	Pro-9 to Ser-19,	Pro-51 to Asp-57.	Lys-2 to Gly-11.		Pro-30 to Cys-35,	Thr-41 to Ser-47.	Met-11 to Lys-28.			Thr-39 to Asn-45.		His-16 to Ser-21,	Val-30 to Asn-40,	Leu-54 to Pro-64.	Pro-31 to Glu-45,	Ala-52 to Lys-58,	Met-78 to Lys-89.	Thr-1 to Asn-6,		Alg-21 to Asn-27.		Gln-4 to Ser-9,	Ala-23 to Glu-29,	riie-03 to Ser-/1.	
				4055		4056		4057		4058			4059		4060			4061			4062			4063	4064			4065
	1			274 - 543		50 - 502		2 - 151		2 - 490			133 - 321		205 - 633			10 - 426			189 - 422			158 - 424	90 - 308			1 - 144
	٠			1368		1369		1370		1371			1372		1373			1374			1375		,	1376	1377		000,	1378
				963433		888470		922941		912198			618579		958354			881004			853971		0.00	870525	806495		100000	806504
				HTEPZ10		HTEPZ18		HTEQB03		HTEQD40			HTEQD69		HTEQE87			HTEQG56			HTEQI54			HIEQJ14	HTEQJ42		TTTTOOOT	HIEQUSI

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1.	H0616: 4	H0616: 3 and L0758:	AR089: 10, AR061: 3 H0253: 8, H0038: 4,	H0616: 3, H0618: 2, L0758: 2 and L0779: 1.	L0758: 6, H0616: 2 and L0794: 2.	L0758: 3, H0038: 1	and H0616: 1.	H0253: 2	H0618: 4 and H0253:	3.	H0253: 2	H0253: 3		H0038: 164, H0253:	42, H0150: 2, H0549: 1	and S0042: 1.	L0758: 4, H0253: 2,	H0616: 2, L0649: 1,	L0666: 1, L0663: 1 and	.0780: 1.	L0758: 5, H0253: 4,	L0794: 4, H0618: 2,	H0038: 1, H0616: 1 and	L0768: 1.
	Lys-1 to Phe-10.	Asp-5 to Asp-14.	Thr-17 to Leu-22.		Asn-83 to Ser-88.			Asp-32 to Gln-37.	Ala-6 to Gly-25.		Gly-42 to Arg-47.	Leu-2 to Cys-8,	Gly-32 to Arg-39.	Ala-1 to Arg-6,	2.	2	Ser-5 to Asn-12,	Leu-63 to Gly-71.	-				Phe-53 to Asn-59,	Tyr-68 to Leu-73,
	4066	4067	4068		4069	4070		4071	4072		4073	4074		4075			4076				4077			
	1 - 141-	254 - 24	108 - 590		77 - 388	193 - 1311		3 - 281	3 - 266		1 - 333	2 - 163		23 - 154			2 - 298				86 - 529			
	1379	1380	1381		1382	1383		1384	1385		1386	1387		1388			1389				1390			
	966141	932301	939641		966486	924799		530577	530579		575019	679414		546469			761758				421550			
	HTEQP45	НТЕОО82	HTEQR15		HTEQR94	нтеот63		HTLAB19	HTLAB44		HTLAB73	HTLAC81		HTLAC87			HTLAD21				HTLAD38			

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									,	109400,	125270,	125270,	128100,	132800,	132800,	137350,	186855,	191100,	215700,	223360,	223900,	253800,	253800,	268900,	278700,	601850,	602088	
					-		14		1	9q31-q34	1	1															,	
	H0253: 2 and L0777:	1.	H0253: 3	H0253: 2			H0253: 1, H0038: 1	and H0616: 1.		L0366: 3, H0618: 2,	H0253: 1 and L0754: 1.			-							,							H0616: 2, H0618: 1 and H0253: 1.
Gln-96 to Gly-102.	Pro-32 to Thr-48,	Arg-102 to Pro-109.	Ser-39 to Gly-45.	Ala-2 to Pro-8,	Pro-57 to Trp-67,	Cys-69 to Gly-74.	Glu-6 to Thr-15,	Ser-21 to His-34,	Arg-53 to Ala-64.	Ser-1 to Gly-8,	Thr-15 to Thr-23,	Pro-45 to Pro-53.				1		•				,						Glu-21 to Gln-27, Ser-30 to Lys-37.
	4078		4079	4080			4081			4082															٠			4083
	1 - 444		36 - 221	2 - 331			2 - 232			209 - 481	•														-			3 - 590
	1391		1392	1393			1394			1395																		1396
	836390	0,000	530/42	506739			967408			780116																	1333	9/1661
	HTLAF84	TITT A TITT	HILAV6/	HTLBD12			HTLBE55			HTLBE82												-					Т	H1LBF14

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H0253: 2	AR061: 373, AR089:	188	H0253: 3, H0618: 2,	H0038: 2, H0616: 1 and	L0758: 1.	L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0253: 2	H0253: 1, L0794: 1,	L0766: 1, L0803: 1,	H0670: 1 and L0747: 1.	AR061: 5, AR089: 5	H0253: 4, H0618: 3,	L0758: 3, L0779: 2 and	L0794: 1.	H0253: 2	L0758: 4, L0794: 2,	L0617: 1, H0253: 1,	H0038: 1, L0789: 1 and	L0779: 1.	H0253: 2	L0758: 11, H0253: 3,	H0550: 1 and H0616: 1.					
						Gly-1 to Ile-6,	Gly-12 to Ile-27.		Leu-58 to Arg-68.	Arg-9 to Cys-18,	Arg-34 to Gly-40,	Glu-47 to Asp-54.	Arg-1 to Arg-6,	Ala-49 to Tyr-58,	Pro-67 to Lys-80,	Ser-92 to Trp-108.	His-1 to Gly-6.			,		Ser-6 to Ser-11.	Asn-1 to Glu-6,	Gly-17 to His-28,	Glu-33 to Ser-39,	Pro-41 to Lys-51,	Pro-56 to Glu-69,	Ser-83 to Lys-90,	Thr-97 to Ser-103,
4084	4085					4086			4087	4088			4089				4090	4091				4092	4093						
96 - 200	38 - 1096					2 - 112	١		2 - 277	2 - 301	ı		134 - 934				1 - 162	17 - 286		•		2 - 271	72 - 497						
1397	1398					1399			1400	1401			1402		•		1403	1404				1405	1406						
527942	911655					772644			767667	682208			908832				572959	815897				828115	780842						1
HTLBG83	HTLCA95					HTLCG77			HTLCX76	HTLCY27			HTLCY54				HTLCZ48	HTLCZ96				\neg	HTLDE53						

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	AR089: 25, AR061: 11 H0253: 2 and H0618:	H0253: 2	AR061: 7, AR089: 3	_	L0779: 2, H0253: 1,	L0809: 1, L0666: 1 and	H0648: 1.	H0253: 2	H0553: 3 and H0253:	H0618: 1 and H0253:	H0253: 2, H0188: 1	and H0038: 1.		H0253: 3 and H0618:	2.				H0618: 11, H0253: 10,	H0616: 6, L0758: 5,	H0038: 4, L0768: 2 and	H0090: 1.	7, AR089:	AR054: 2, AR051: 2,	AR050: 2
Arg-121 to Asp-131.	Glu-15 to Leu-20, Leu-24 to Ser-47.		Pro-7 to Gly-13.	•				Gly-1 to Arg-10.			Met-12 to Asp-18,		Lys-38 to Trp-47.	Gly-1 to Gly-9,	Gln-15 to Arg-20,	Cys-53 to Arg-59,	Arg-84 to Glu-89,	Pro-105 to Glu-113.	Ser-3 to Ser-16.					Pro-19 to Leu-27,	Asp-34 to Pro-40,
	4094	4095	4096			٠		4097	4098	4099	4100			4101					4102				4103		
	83 - 427	86 - 298	3 - 599					1 - 192	3 - 431	248 - 472	90 - 458			1 - 573					1 - 834				2 - 1171		
	1407	1408	1409					1410	1411	1412	1413			1414					1415				1416		
	908613	616724	909254					911645	839795	835850	915223			920546			_		870057				891322	-	
	HTLDE64	HTLDE95	HTLDF33					HTLDG55	HTLDH65	HTLDI90	HTLD094			HTLDP77	,				HTLDQ25				HTLDS55		

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H0618: 5, L0758: 4, H0038: 3, H0253: 2, H0553: 1, H0616: 1,	L0789: 1, L0663: 1 and L0779: 1.			•		AR089: 11, AR061: 7	H0253: 2, L0439: 1	and L0599: 1.	H0253: 2 and H0618:	AR061: 8. AR089: 7	٠.	HUZ53: 3, HU618: 1		,				,		H0253: 1 and S0152: 1.		H0618: 2 and H0253:				H0038: 2 and H0253:
Ser-45 to Ser-52, Lys-105 to Pro-112, Pro-146 to Trp-158,	Arg-181 to Arg-189, Arg-241 to Arg-248,	Asp-285 to Asn-291,	Gln-328 to Ile-333,	Gln-369 to Thr-375,	Arg-380 to Phe-390.	Gly-3 to Ser-8.			Pro-3 to Pro-8, Glu-22 to Gln-29.	Pro-89 to Ala-97.			ı					ı		Gin-16 to Giy-35,	Gly-59 to Ser-74.	Pro-5 to Gly-10,	Gly-24 to Ala-33,	Pro-88 to Pro-95,	Pro-106 to His-114.	Lys-50 to Ala-55,
				•		4104			4105	4106									1100	410/		4108				4109
						2 - 328		,	1 - 465	2 - 469									300	605 - 10		148 - 636				3 - 425
						1417			1418	1419									1420	1470		1421				1422
						909752			952265	911649							,		017770	00//40	. 0,	/91684				573746
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1.	H0253: 2	H0618: 4 and H0253:	H0253: 2	H0253: 2	AR051: 12, AR054:	10, AR050: 8	H0616: 6, H0618: 2,	H0253: 2 and H0038: 2.	H0253: 2	H0253: 2		H0253: 3	AR061: 3, AR089: 1	H0618: 3 and H0253:	1		H0253: 5 and H0618:	3.		H0253: 2	1	H0253: 1 and H0616:	H0253: 2
Thr-99 to Glu-104, Arg-116 to Arg-122, I.vs-129 to Thr-136		Gly-63 to Arg-71.	Leu-1 to Pro-7.							Gly-1 to His-8,	Glu-26 to Gly-33.	Glu-58 to Thr-63.	Tyr-52 to Gln-60,	Phe-86 to Ala-94,	Lys-111 to Arg-118,	His-193 to Tyr-198.	His-22 to Lys-36,	Asp-51 to Lys-59,	Gln-68 to Leu-83.	Ala-1 to Cys-13,	Arg-32 to Ala-37.	Pro-3 to Gly-9.	
	4110	4111	4112	4113	4114				4115	4116		4117	4118				4119			4120		4121	4122
	174 - 347	1 - 414	102 - 287	33 - 239	177 - 1181				1 - 111	1 - 528		124 - 417	2 - 802				2 - 307			2 - 331		2 - 202	2 - 106
	1423	1424	1425	1426	1427				1428	1429		1430	1431				1432			1433		1434	1435
	573401	573464	686906	870258	870154			1 0000	870257	934287		573460	973302				960314			506747		917022	275080
	HTLDZ14	HTLEB14	HTLED72	HTLEF94	HTLEG65			THE THE	HILEG91	HTLEH30		HTLEI47	HTLE311				HTLE193			HTLEK64		HTLEL01	HTLEL03

120120, 120120,	120436,	120436,	138320,	168468,	182280,	600163			126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447								
									7q22																
							H0253: 1 and H0617:		H0253: 2	•							H0253.7 1 0777.2	and L0759: 1;	H0253: 1 and H0038:	1.	H0253: 2, L0794: 2	and S0042: 1.	H0618: 2 and H0253:	1.	
		•					Ala-29 to Asn-37, Lvs-64 to Thr-77.	Ile-97 to Arg-126.	Pro-6 to Glu-13,	Arg-18 to Pro-30.					,				Ser-2 to Pro-10.					Glu-82 to Glu-87,	Lys-103 to Gly-108.
							4123		4124								4125		4126		4127		4128		
,							58 - 555		3 - 143			,					1 - 456		2 - 265		3 - 443		3 - 605		
						, 67,	1436		1437								1438		1439		1440		1441		
						0,000	21/566		056699								719160		506649		574942		923706		
						TO THE TOTAL	HILELU/		HTLEL31								HTLEM46	_	HTLEO50		HTLEP16		HILEQ07		

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H0253: 2	H0038: 2 and H0253:	,		AR061: 6, AR089: 5	H0253: 18, H0618: 7,	L0794: 3, H0038: 1,	H0616: 1, L0788: 1 and	L0758: 1.		AR061: 4, AR089: 2	H0618: 10, H0253: 5,	L0758: 5, L0664: 1,	L0756: 1, L0779: 1 and	L0698: 1.	H0253: 2	L0794: 5, H0253: 3,	H0618: 2, H0616: 2,	L0758: 2 and L0787: 1.	H0616: 14, H0618: 8,	L0779: 4, H0253: 3,	H0038: 3, L0790: 1 and	L0758: 1.		H0253: 2, H0617: 2	and H0618: 1.	H0253: 2	H0253: 2		H0253: 2
	Pro-10 to Gln-19,	Pro-46 to Ile-59,	Thr-64 to Leu-70.	Ser-54 to Lys-61,	Pro-118 to Lys-128,	Thr-208 to Ser-213,	Ser-218 to Ala-227,	Pro-230 to Ser-236,	Pro-238 to Ser-244.	Leu-11 to Lys-18,	Phe-107 to Gly-114,	Glu-121 to Asn-128,	Met-146 to Pro-153.	•		Ala-8 to Gly-17,	Pro-25 to His-34.		His-1 to Thr-6,	His-14 to Cys-58,	Cys-70 to Ala-77,	Pro-85 to Cys-109,	Pro-116 to Glu-121.				Arg-1 to Gly-21,	Gln-38 to Asp-43.	Pro-38 to Trp-43,
4129	4130			4131						4132					4133	4134			4135					4136		4137	4138		4139
49 - 216	1 - 282			92 - 826						2 - 826					1 -1111	1 - 273			52 - 414					2 - 346		3 ± 197	2 - 130		5 - 226
1442	1443			1444						1445					1446	1447			1448					1449		1450	1451		1452
573403	574884			911654						836820					573454	527956			883332					870255		573458	967309		775310
HTLES43	HTLES54			HTLET56						HTLET78					HTLET93	HTLEV33			HTLEV95				·	HTLEW12		HTLEW21	HTLEY11		HTLEY91

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Pro-47 to Lys-54,	Gly-62 to Arg-72.	Asn-18 to Pro-44, Val-64 to Phe-70.	Pro-5 to His-12,	Glu-30 to Thr-36.		Ser-20 to Glu-26,	Gly-31 to Ala-46,	Thr-62 to His-67,	Arg-72 to Pro-81.	Ala-4 to Trp-10,	Glu-27 to Gln-32,	Gly-115 to Gly-122.	Asn-7 to Val-12,	Leu-15 to Ser-23.	His-1 to Cys-6,	Glu-24 to Gly-29,	Gln-53 to Asp-59,	Gly-80 to Pro-86,	Glu-142 to Ser-148,	Ser-154 to Val-160,	Pro-163 to Glñ-180,	Val-195 to Pro-200,	Lys-205 to Ser-213,	Ala-222 to Glu-228,	Asp-239 to Gly-270.	Gly-11 to Val-29,	Gly-31 to Glu-38,	Ala-40 to Arg-48,
	4140	4140	4141		4142	4143				4144			4145		4146											4147		
	7 224	7 - 554	3 - 251		3 - 209	279 - 707				409 - 1041	•		98 - 313		3 - 812								-			80 - 475		
	1452	1433	1454		1455	1456				1457			1458		1459											1460		
	701662	/91002	934288		870261	934172				917128			917033		954984				_							934278		
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	H0253: 3 and H0038:	AR089: 19, AR061: 13 7q22 H0618: 8 and H0253:. 4.		H0253: 1 and H0038:	H0253: 2	AR061: 3, AR089: 1 H0618: 4, H0253: 4, H0616: 2, L0758: 2 and H0038: 1.	L0758: 2, H0618: 1, H0253: 1, H0616: 1 and L0779: 1.	H0618: 4, L0779: 1 and L0758: 1.
Gly-55 to Val-65, Leu-70 to Thr-76.	Pro-24 to Arg-31, Ile-66 to Leu-72, Asp-90 to Glu-98.	Ala-15 to Asp-23, Thr-44 to Tyr-52.		Asp-13 to Leu-26, Val-38 to Val-76.	Gin-7 to Phe-13, Leu-24 to Val-37, Pro-50 to Leu-65.	Gly-3 to Gly-9, Leu-51 to Gln-58, Leu-67 to Ser-74, His-100 to Pro-106, Arg-132 to Arg-138.	His-27 to Ser-39, His-47 to Pro-55.	Thr-13 to Ser-21, Arg-26 to His-44, Ala-85 to Cys-91,
	4148	4149		4150	4151	4152	4153	4154
	2 - 430	2 - 622		19 - 513	2 - 343	28 - 600	287 - 652	2 - 574
	1461	1462		1463	1464	1465	1466	1467
	775392	953730		781303	573462	870136	835493	789656
	HTLF128	HTLF139		HTLF183	HTLF139	HTLGD25	HTLGD69	HTLGG36

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	H0618: 2, H0617: 1 and L0743: 1.	H0618: 2	AR089: 21, AR061: 16 H0618: 32, H0253: 13, H0616: 6, L0758: 3,	H0038: 2, L0794: 2, H0009: 1, H0688: 1,	L0769: 1, L0372: 1, L0646: 1, L0363: 1, L0766: 1, L0790: 1	L0665: 1, H0670: 1 and L0779: 1.	H0618: 9, H0253: 1 and L0758: 1.	H0618: 3 and H0253:	3.	L0748: 4, H0618: 3,	L0/51: 3, L0/49: 2, L0777: 2, H0038: 1,	H0616: 1, L0772: 1 and	L0775: 1.	
Thr-104 to Thr-121, Gly-156 to Arg-163.		Lys-1 to Gly-12, Glu-32 to Phe-41, Arg-69 to Leu-81, Pro-188 to Ile-195.	Arg-1 to Glu-6, Ile-15 to Phe-23, Gly-59 to Phe-72,	Pro-95 to Trp-112, Phe-117 to Pro-129.			Asn-4 to Thr-10, Pro-46 to Asp-51.	Arg-39 to Asn-44,	Arg-98 to Ile-103.	Pro-41 to Gly-57,	Leu-/o to Gly-83, Pro-87 to Ser-95,	Glu-97 to Pro-106,	Ile-122 to Glu-128,	Gln-152 to Arg-166, Thr-180 to Arg-187,
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	1468	1469	1470		, ·		1471	1472		1473				
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Leu-191 to Pro-199, Glu-231 to Cys-241, Val-248 to Asp-255.	Gly-38 to Phe-51, Pro-74 to Trp-91,	Phe-96 to Ala-127, Glu-130 to Gly-148.							Gln-1 to Trp-27.	,		Lys-36 to Glu-45.			Phe-6 to Ala-12,	Arg-24 to Arg-35,	Leu-66 to Phe-84.	Glu-37 to Gln-42.		Tyr-31 to Arg-42,	Met-63 to Leu-69,	Tyr-114 to His-123.	Pro-1 to Ala-10,
	4161						4162		4163			4164			4165			4166	4167	4168			4169
	3 - 503		ŀ			,	62 - 508		186 - 1103			298 - 164			87 - 455			11 - 181	350 - 604	1 - 381			21 - 893
	1474						1475	, , ,	1476			1477			1478			1479	1480	1481	•		1482
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and L0758: 1.		L0758: 8, H0618: 4, H0253: 1, H0038: 1 and	L0769: 1.	,		H0618: 3									H0018: 2		H0618: 1 and H0253:	1.	H0618: 2, L0764: 2,	H0253: 1, L0492: 1,	H0673: 1 and H0038: 1.		AR089: 7, AR061: 7	H0618: 1 and H0038:	1.	H0618: 2	
Val-27 to Gly-42,	Asp-61 to Asp-66, Ser-81 to Ala-88.	Gln-10 to Ile-18, Arg-41 to Ala-59,	His-115 to Lys-128,	Lys-143 to Glu-151,	Thr-164 to Glu-169.	Glu-2 to Thr-7,	Arg-64 to Lys-72,	Glu-77 to Leu-83,	Arg-93 to Ser-102,	Ile-118 to Gln-123.					Ser-134 to Glu-139,	Inf-134 to Lett-160.	Arg-1 to Gln-13,	Phe-16 to Pro-62.	Pro-7 to Lys-15,	Asp-21 to Ser-28,	Gln-53 to Ala-58,	Thr-115 to Asn-127.	Thr-10 to Thr-18,	Pro-58 to Val-65.		Pro-11 to His-17,	Pro-27 to Asp-36,
		4170				4171									4117		4173		4174				4175			. 4176	
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3 - 899 41// Ser-25 to 1hr-32, His-50 to Lys-56, Glu-111 to Asp-116, Trp-156 to Lys-161, Leu-189 to Arg-202, Asp-258 to Thr-264. 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Gln-37, Gly-49 to Ala-66, His-30 to Gln-37, Gly-49 to Ala-66, His-119 to Thr-126. His-119 to Thr-126. His-119 to Thr-122. His-119 to Thr-122.		1000	007.	000		Ser-38 to His-43.			
Glu-111 to Asp-116, Trp-156 to Lys-161, Leu-189 to Arg-202, Asp-258 to Thr-264. 1492 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Arg-144, Arg-149 to Arg-158. His-30 to Glu-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. 1494 618 - 97 4181 Pro-18 to Asp-23, Arg-110 to Glu-122. Arg-110 to Glu-122.	_	58351	1490	3 - 899	4177	Ser-25 to Thr-32, His-50 to Lys-56.	L0758: 6, H0616: 3, H0038: 2 and H0618: 1.	·····	
Trp-156 to Lys-161, Leu-189 to Arg-202, Asp-258 to Thr-264. 1491 501 - 644 4178 Leu-189 to Arg-202, Asp-258 to Thr-264. 1492 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Gly-49 to Ala-66, Ala-80 to Lys-92, Gly-91 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.		_				Glu-111 to Asp-116,			-
Leu-189 to Arg-202, Asp-258 to Thr-264. 1491 501 - 644 4178 1492 3 - 659 4179 Leu-11 to Leu-17, Pro-2 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.						Trp-156 to Lys-161,		•	
1491 501 - 644 4178 1492 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Glu-37, Gly-49 to Ala-18, His-30 to Glu-37, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Glu-122.						Leu-189 to Arg-202,		-	_
1491 501 - 644 4178 1492 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Scr-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 1493 46 - 609 4180 Pro-13 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. 1494 618 - 97 4181 Pro-18 to Asp-13, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. 1495 1 - 1368 4182		-				Asp-258 to Thr-264.			
1492 3 - 659 4179 Leu-11 to Leu-17, Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-1494 to Arg-158. Gly-49 to Arg-158. Gly-49 to Arg-158. Gly-49 to Arg-103, His-30 to Gln-37, Gly-49 to Arg-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.		931046	1491	501 - 644	4178		H0618: 2		
Pro-22 to Leu-27, Pro-40 to Lys-46, Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122. Arg-110 to Gln-122.		370115	1492	3 - 659	4179	Leu-11 to Leu-17,	H0618: 1 and H0253:		
Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122. Arg-110 to Gln-122.						Pro-22 to Leu-27.	1.		
Arg-66 to Pro-73, Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Glu-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.						Pro-40 to Lys-46,			
Thr-91 to Ser-98, Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. 1493						Arg-66 to Pro-73,		-	
Val-102 to Lys-108, Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-158. His-30 to Glu-37, Gly-49 to Glu-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Glu-122. Arg-110 to Glu-122.			•			Thr-91 to Ser-98,			-
Gly-125 to Glu-130, Leu-138 to Asp-144, Arg-149 to Arg-149 to Arg-149 to Arg-158. His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122. Arg-110 to Gln-122. His-1368 4182 His-119 to Thr-126. His-119 to Thr-126. His-119 to Thr-126. His-119 to Gln-122. Arg-110 to Gln-122. His-1368 His-110 to Gln-122. His-119 to Thr-126. His-110 to Gln-122.					Val-102 to Lys-108,	,			
Leu-138 to Asp-144, Arg-149 to Arg-158. 1493				·		Gly-125 to Glu-130,			
1493 46 - 609 4180 Pro-13 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Gln-122. Arg-110 to Gln-122.				ı		Leu-138 to Asp-144,		•	
1493 46 - 609 4180 Pro-13 to Ala-18, His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Gln-122. Arg-110 to Gln-122.						Arg-149 to Arg-158.			
His-30 to Gln-37, Gly-49 to Ala-66, Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-110 to Gln-122. Arg-110 to Gln-122.	\sim	946300	1493	46 - 609	4180	Pro-13 to Ala-18,			
1494 618 - 97 4181 Pro-18 to Asp-23, His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.						His-30 to Gln-37,	L0758: 12, H0618: 6,		
Ala-80 to Lys-92, Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. Arg-110 to Gln-122.						Gly-49 to Ala-66,	H0038: 3, H0253: 1,		
Glu-98 to Asp-103, His-119 to Thr-126. His-119 to Thr-126. Arg-110 to Gln-122. His-1368 4182 His-11368 His-110 to Gln-122. His-11368 His-1			*			Ala-80 to Lys-92,	H0050: 1, L0151: 1 and		
His-119 to Thr-126. 1494 618 - 97 4181 Pro-18 to Asp-23, A Arg-110 to Gln-122. 1495 1 - 1368 4182			•	· -		Glu-98 to Asp-103,	L0768: 1.		
1494 618 - 97 4181 Pro-18 to Asp-23, Arg-110 to Gln-122.		-				His-119 to Thr-126.	1		
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1495 1 - 1368 4182						Arg-110 to Gln-122.	L0758: 10, L0794: 3,		
1495 1 - 1368 4182 A							H0618: 2, H0038: 2,		
1495 1 - 1368 4182 A							H0253: 1, L0768: 1 and		
1495 1 - 1368 4182 A							L0789: 1.	_	
H0618: 64, H0253: 52,	٠,	942161	1495	1 - 1368	4182		AR061: 0, AR089: 0		
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L0758: 6, L0779: 2, H0392: 1, H0038: 1, L0761: 1, L0803: 1, L0806: 1 and L0697: 1.	H0618: 8 and H0253:	H0618: 2	AR061: 7, AR089: 5 H0618: 12, H0253: 8, H0038: 6, L0758: 6, L0779: 5, H0616: 3, T0041: 1, L0776: 1, S0274: 1 and H0543: 1.	H0618: 1 and H0253: 1.	H0253: 5 and H0618:
	Thr-50 to Tyr-58, Gly-155 to Gln-161, Thr-164 to Gln-175.	lle-1 to Trp-9, Gly-35 to Val-53, Gly-55 to Glu-62, Ala-64 to Arg-72, Gly-79 to Arg-85.	His-1 to Phe-9, Cys-13 to Thr-18, Pro-35 to Gly-48, Glu-61 to Pro-68, Lys-105 to Ala-136, Thr-144 to Gln-154, Leu-163 to Gly-171, Thr-205 to Gln-222, Pro-251 to Gln-257.	Cys-5 to Ser-15, Pro-36 to Pro-44.	Arg-15 to Glu-25,
	4183	4184	4185	4186	4187
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Lys-35 to Val-41, Gln-70 to Pro-100.	Gln-1 to Thr-12.				Leu-9 to Ser-14.					Leu-10 to Lys-16,	Asn-43 to Ser-49.		ŀ				Gly-21 to Gly-27,	Pro-38 to Gly-49,	Ser-68 to Asp-73.	Arg-7 to Cys-13,	Ser-16 to Arg-21,	Ala-28 to Gly-33.	Pro-6 to Asn-13, Thr-25 to Glv-34	
	4188				4189		4190	4191	4192	4193						4194	4195			4196		-	4197	4198
	1 - 921			1	2-619		132 - 245	74 - 160	2 - 232	3 - 194					-	1 - 261	29 - 274			91 - 255			61 - 309	1 - 156
	1501				1502		1503	1504	1505	1506						1507	1508			1509			1510	1511
	924755				922994		835652	723331	509574	707750		•				509657	509453	-		961057			797726	509128
	HTLJJ75				HTLJL23		HTTAD55	HTTAE49	HTTAH87	HTTAJ35						HTTAJ50	HTTAN57			HTTAS96			HTTAU82	HTTBE25

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H0040: 1, L0438: 1 and H0658: 1.	H0031: 1 and H0040:	H0040: 2	AR061: 4, AR089: 3	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0766: 1	and L0758: 1.	AR061: 5, AR089: 2	H0040: 3			H0040: 2	H0040: 3	H0040: 2	,	H0040: 1 and H0634:	H0040: 3	H0040: 2	H0040: 3 and L0792:
Pro-14 to Gly-20, Leu-23 to Asn-33.	Ser-16 to Lys-22, Ser-29 to Gln-35.		Thr-3 to Arg-14.			Glu-74 to Tyr-79.	Asn-1 to Ser-13.				Phe-86 to Tyr-94,	Val-149 to Eys-155,	Trp-169 to Asn-179,	Thr-189 to Glu-197.			Gly-13 to Gly-19,	Pro-38 to Gly-50, Glu-67 to Glv-73.	,	Ser-2 to Val-16, Pro-50 to Tro-56.		
4199	4200	4201	4202		4203	4204	4205	4206	4207		4208				4209	4210	4211		4212	4213	4214	4215
177 - 326	106 - 264	114 - 266	3 - 263		54 - 176	2 - 262	248 - 391	3 - 101	72 - 185		3 - 1049				191 - 298	78 - 260	26 - 280		3 - 188	155 - 364	47 - 136	3 - 89
1512	1513	1514	1515		1516	1517	1518	1519	1520	,	1521				1522	1523	1524		1525	1526	1527	1528
230265	530562	530563	530564		578085	869705	925390	530393	529672		973210				526385	917155	968131		989698	973307	573641	523452
HTTBH34	HTTBH41	HTTBH54	HTTBJ94		HTTBN67	HTTCA15	HTTCD03	HTTCD71	HTTCL35		HTTCT34				HTTDF50		HTTDG36		HTTDI21	HTTDJ65	HTTDL38	HTTDL45

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H0040: 2	H0040: 2	H0040: 2	AR089: 16, AR061: 9	H0040: 2			H0040: 2 and H0670:	1.	H0040: 2 and L0766:	1.	H0040: 2	H0040: 2	H0253: 3, L0758: 2,	H0618: 1, H0038: 1 and	H0040: 1.	H0040: 2	H0618: 1 and H0040:		H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0439: 2,	L0438: 1 and L0747: 1.			H0040: 2, H0616: 1,	L0794: 1, L0779: 1 and
	Gln-8 to Ser-13, Asp-20 to Tyr-27.		Thr-3 to Lys-9,	Gly-14 to His-26,	His-30 to Lys-37,	Lys-43 to Ser-49.	Phe-25 to Phe-38.		Ile-3 to Lys-9.		Gly-8 to His-21.		Pro-33 to Arg-43,	Ala-48 to Tyr-57.			Ser-11 to Ala-19,	Lys-27 to Ala-33.	,	-		Lys-8 to Val-20,	Ser-72 to Ala-77,	Ala-84 to Ser-92,	Leu-110 to Lys-119.	Ser-1 to Gln-7,	Arg-9 to Glu-14,
4216	4217	4218	4219				4220		4221		4222	4223	4224			4225	4226		4227	4228	4229	4230				4231	
183 - 341	52 - 387	89 - 313	1 - 333			١	150 - 440		110 - 280		190 - 330	217 - 387	1 - 480			125 - 298	2 - 313		227 - 349	149 - 286	102 - 209	2 - 766				85 - 285	
1529	1530	1531	1532				1533		1534		1535	1536	1537			1538	1539		1540	1541	1542	1543				1544	
959837	734318	783444	908937				573685		790336		573666	920589	921100			692608	523206		573719	747943	745985	967819				573614	
HTTDL89	HTTDN40	HTTDN85	HTTD019				HTTD037		HTTDR91		HTTDR92	HTTDS02	HTTDX84			HTTDZ54	HTTDZ91		HTTEB33	HTTEH58	HTTEL50	HTTEU68				HTTEV62	

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																		179		11p11.2-p11.1 133701,	168500,	171650,	176930,	176930,	600623,	600811,
L0758: 1.		H0040: 4	H0040: 2, H0435: 1,	L0439: 1 and L0759: 1.	H0040: 2	H0040: 1, S0150: 1 and	L0601: 1.	H0040: 2	H0040: 5	H0040: 2, H0169: 1	and L0753: 1.	H0040: 2	H0040: 2, L0794: 2,	L0659: 1, L0809: 1,	L0779: 1 and L0752: 1.	H0040: 3			AR061: 6, AR089: 2 H0040: 2	H0040: 2, L0748: 2,	L0749: 2 and L0766: 1.					
Pro-16 to Val-24,	Arg-35 to Asp-40.		Ala-1 to Ala-7,	Gly-53 to Lys-67.	Arg-40 to Asn-45.				Asp-14 to Gln-22.				Arg-25 to Trp-32.			Gly-15 to Gly-21,	FIO-51 to Pro-40.	ŀ			•					
		4232	4233		4234	4235		4236	4237	4238		4239	4240			4241		4242	4243	4244						
	1	207 - 464	598 - 804		168 - 329	1 - 408		2 - 220	1 - 183	235 - 441		139 - 285	36 - 263		-	99 - 419		52 - 219	141 - 1079	1 - 273						
		1545	1546	·	1547	1548		1549	1550	1551		1552	1553			1554		1555	1556	1557						
		974107	917903		771602	870198		999698	778426	974284		757358	665282			974346		750942	950051	825922						
		HTTEY64	HTTEY67		HTTEZ34	HTTFA16 870198		HTTFB60	HTTFG35	HTTFG83	,	HTTFH70	HTTFK90			HTTFL89		HTTFM17	HTTFM66	HTTFS59						

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856009			-												,											
	H0040: 3	H0040: 2	H0615: 1 and H0040:	L0748: 13, L0770: 4,	L0777: 3, H0040: 2,	L0794: 2, L0528: 2,	L0789: 2, L0758: 2,	H0685: 1, H0688: 1,	L0662: 1, L0768: 1,	L0766: 1, L0657: 1,	L0526: 1, L0809: 1,	L0439: 1 and L0740: 1.	H0040: 2 and H0634:	1.	H0634: 2	L0755: 3, L0766: 2,	H0031: 1, H0634: 1,	L0439: 1 and L0759: 1.	H0634: 2	H0634: 2	H0040: 1 and H0634:	1.	H0040: 1, H0634: 1	and L0485: 1.	H0634: 2	H0634: 2
	Asn-23 to Gln-29, Arg-37 to Asn-43.	Asp-36 to Lys-41.											Lys-20 to Lys-27.		Tyr-12 to Gly-17.	-			His-54 to Ser-61.	Lys-47 to Asp-56.	4				Gln-15 to Thr-20.	Ala-17 to Gln-28,
	4245	4246	4247	4248									4249		4250	4251			4252	4253	4254		4255		4256	4257
	34 - 207	47 - 169	53 - 202	63 - 212									114 - 329		436 - 606	207 - 542			2 - 235	2 - 247	32 - 226		547 - 717		338 - 553	158 - 430
	1558	1559	1560	1561									1562		1563	1564			1565	1566	1567		1568		1569	1570
	934460	925544	923105	924775									974066		931004	953479			926752	869636	869635		934089		869634	931015
	HTTFT08	HTTFV93	HTTFW03	HTTFX21									HTTFZ70		HTTHH05	HTTHU43			HTTIG04	HTTIH23	HTTIH80	TAMBLE OF	HILLITO		HTTIN23	HTTIU05

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	H0634: 3	H0634: 2	H0040: 1, H0634: 1	allu Luous. 1.	H0040: 1 and H0634:	1.	H0634: 2			H0634: 2	H0040: 1 and H0634:	1.	H0040: 1 and H0634:	H0634: 2	H0549: 1 and H0634:	H0040: 2 and H0634:	H0634: 2	H0634: 3	H0634: 3	H0634: 3	H0634: 1, H0672: 1	alid LU/40: 1.	AR089: 1, AR061: 1 H0634: 2	H0634: 2
Pro-73 to Thr-83.		Ser-60 to Pro-69.	Glu-54 to Lys-60,	I 10-05 to GIy-/4.	Glu-61 to Lys-66,	Met-76 to Asn-83.	Gln-11 to Gly-17,	Glu-26 to Ser-36,	Arg-53 to Ala-60.	Pro-14 to Pro-20.			Arg-29 to Arg-41.		Lys-13 to Arg-21, Gly-26 to Thr-36.					-	Asn-54 to Leu-60.		Thr-15 to Asp-25, Glu-69 to Leu-89	Ala-12 to Gly-22,
	4258	4259	4260		4261		4262			4263	4564		4265	4266	4267	4268	4269	4270	4271	.4272	4273		4274	4275
	294 - 446	112 - 354	13 - 240		18 - 356		3 - 182			137 - 283	61 - 177		1 - 147	169 - 276	2 - 448	1 - 189	56 - 181	210 - 383	228 - 362	354 - 509	166 - 429		2 - 337	65 - 484
	1571	1572	1573		1574		1575			1576	1577		1578	1579	1580	1581	1582	1583	1584	1585	1586	1	1587	1588
	922817	930994	839725		869618		869615			913799	934130		974063	958170	948750	960928	915033	974311	974316	974310	920893		911390	926795
	HTTIW81	HTTIZ05	HTTJA11		HTTJA47		HTTJH13			HTTJM01	HTTJQ06		HTTJX68	HTTJY08	HTTKD44	HTTKF89	HTTKG34	HTTKK06	HTTKL80	HTTKN21	HTTKN30		HITKP07	HTTKS13

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							14																				,	
			H0634: 2		S0042: 2	H0038: 1 and S0042: 1.	H0059: 2		H0059: 2	H0059: 2	H0059: 3	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059-2 1 0657-1	L0809: 1 and L0789: 1.	H0059: 2 and L0766:	1.	1	H0059: 2	H0059: 2		H0059: 2	H0059: 2 and L0803:	7.	
Pro-38 to Ser-45,	Ala-77 to Pro-83,	Ala-88 to Gly-93.	Thr-1 to Gln-7,	GIY-13 (0 GIII-5/.			Ala-4 to Val-11,	Gly-58 to Leu-64.		Glu-1 to Arg-14.		Gly-23 to Pro-31.	Pro-1 to Lys-7.	Ser-27 to Thr-35.	Asp-13 to Gln-19.	1	Pro-19 to Pro-28		Ile-49 to Gly-63,	Ile-66 to Asp-77,	Gly-84 to Ser-90.		Arg-1 to Ser-6,	Tyr-11 to Asp-17.		Thr-14 to Trp-20,	Gly-25 to Pro-30,	Gln-42 to Trp-60.
			4276		4277	4278	4279		4280	4281	4282	4283	4284	4285	4286	4287	4288		4289			4290	4291		4292	4293		
			2 - 193		3 - 224	2 - 163	308 - 81		210 - 347	1 - 309	122 - 322	36 - 164	57 - 224	26 - 334	3 - 164	139 - 327	126 - 254		2 - 271			253 - 62	3 - 122		103 - 294	3 - 302		
			1589		1590	1591	1592		1593	1594	1595	1596	1597	1598	1599	1600	1601		1602			1603	1604		1605	1606		
			830008		529157	739638	503626		503445	966804	954420	954359	529727	531165	531163	531110	531108		522213			714187	967604		526819	537530		
			HITKV17		HUDAM29	HUDBZ78	HUKAA62		HUKAB80	HUKAC72	HUKAM82	HUKAX07	HUKCC86 529727	HUKDH28	HUKDH50	HUKEH36	HUKEH50		HUKEK55			HUKE055	HUKES11		HUKFL69	HUKFV41		

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AR061: 69, AR089: 1	H0046: 1 and H0059:	T0069: 2	H0056: 2	H0056: 2	H0056: 3	H0056: 7				H0056: 10 and S0134:	H0056: 1, H0623: 1	and L0748: 1.	H0056: 2	•	H0056: 8	H0056: 6 and L0547:	TIMOSC O	H0036: 2	H0056: 11, L0805: 2,	L0789: 2, S0358: 1,	L0375: 1, L0776: 1,	L0743: 1, L0777: 1 and	L0759: 1.	H0056: 2
Cys-18 to Ser-24,	Gly-29 to Gln-37.	Thr-1 to Asn-10, Ser-18 to Lys-31.			Thr-35 to Asn-45.	Asp-14 to Ala-30,	Val-33 to Tyr-39,	Ile-52 to Lys-58,	1111-03 W AIB-00.	Ile-1 to Asn-8.	Asn-1 to Ala-14.	Arg-30 to Gly-37.	Leu-40 to Leu-45,	Phe-55 to Leu-60.	Arg-6 to Ala-26.		Class 1 to Con 10	GIY-1 10 381-10.	•					Pro-27 to Trp-38, Leu-48 to Arg-56.
4294		4295	4296	4297	4298	4299				4300	4301		4302		4303	4304	4305	500+	4306					4307
2 - 112		1 - 135	184 - 342	145 - 231	122 - 289	3 - 371		,		163 - 372	1 - 243		9-279		139 - 309	38 - 220	151 207	167-161	3 - 176					1 - 177
1607		1608	1609	1610	1611	1612				1613	1614		1615		1616	1617	1618	1010	1619					1620
946931		575299	503042	502903	933023	928053				868795	914768		699896		535361	535006	500110	001100	880176					707061
HUKFX63		HUNAD94	HUVBB90	HUVBB93		HUVCQ07			1	HUVCŲSS	HUVCS14		HUVCU71		HUVCW62	HUVDB28	HI IVDR53	┰	TOVDC13					HUVDD09

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						1-1		,	1													:				
H0056: 2		H0056: 2	H0056: 3	H0056: 2, H0623: 1 and L0439: 1	H0056: 3 and H0623:	3.	H0056: 2	H0623: 2, H0056: 1	and L0748: 1.	H0056: 2 and H0623:	2.	H0623: 2, H0056: 1	and L0758: 1.	H0056: 1 and H0623:].	H0040: 1, H0056: 1,	H0623: 1, L0755: 1 and	L0592: 1.	H0056: 2	H0056: 2	H0056: 2, H0615: 1	and H0623: 1.	H0056: 2 and H0623:	1.	H0056: 1 and H0623:	H0056: 1 and H0623:
Arg-1 to Ser-6,	Arg-13 to Ser-18.		Gly-1 to Arg-12.	Glu-13 to Phe-18, Glv-46 to Ala-56.	,		Lys-16 to Lys-36.	Ser-21 to Thr-29.		Phe-7 to Trp-22.		Ala-2 to Gly-9.				Lys-31 to Gln-40,	Gln-42 to Met-49,	Lys-74 to Thr-82.		Gln-20 to Cys-26.	Arg-12 to Gly-17.				Leu-22 to Ser-31.	
4308		4309	4310	4311	4312		4313	4314		4315		4316		4317		4318			4319	4320	4321		4322		4323	4324
1 - 225		2 - 214	3 - 257	29 - 241	111 - 293	-	3 - 110	233 - 412		1 - 81		224 - 415		3 - 263		318 - 572			1 - 150	75 - 164	3 - 110		148 - 354		170 - 343	175 - 330
1621		1622	1623	1624	1625		1626	1627		1628		1629		1630		1631		1	1632	1633	1634		1635		1636	1637
961020		526248	522823	530558	719332		530387	219477		530386		958027		099898		430750			534783	527937	530094		622898		967815	868782
HUVDF13		HUVDF84	HUVDF88	HUVDI28	HUVDI76		HUVDL30	HUVD025		HUVDP95		HUVDS26		HUVDU51		HUVED35			HUVED54	HUVED65	HUVEN50	- 1	HUVFA55		HUVFB48	HUVFB69

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1.	H0623: 2 and L0759: 1.	H0623: 2	H0623: 3	H0056: 1 and H0623:	H0623: 2	H0623: 2, L0749: 2,	H0056: 1 and L0794: 1.		H0623: 2	H0623: 3	H0623: 2 and L0534:			H0623: 3, H0616: 1	and L0748: 1.		H0545: 1 and H0623:	<u>.</u>		H0623: 2		AR089: 2, AR061: 1	H0623: 2, H0056: 1,	L0803: 1, L0750: 1 and
	Phe-1 to Gly-8.	Phe-3 to Arg-8, Arg-21 to Ser-27.	Ser-27 to Gly-32.		Ser-46 to Pro-57.	His-7 to Thr-18,	Gly-53 to Phe-59,	Pro-67 to Ser-74, Val-76 to Leu-85.	Asp-1 to Arg-7.		Thr-3 to Ala-12,	Ser-27 to Ala-32,	Ala-38 to Glu-44.	Arg-1 to Ser-8,	Pro-13 to Pro-18,	Glu-55 to Trp-64.	Asp-1 to Asn-10,	Thr-29 to Trp-43,	Trp-62 to Ser-68.	Thr-9 to Asp-17,	Asp-43 to Arg-48.	Lys-1 to Cys-8,	Glu-31 to Ser-37,	Val-98 to Pro-105.
·	4325	4326	4327	4328	4329	4330			4331	4332	4333			4334			4335			4336		4337		
	85 - 240	240 - 362	160 - 294	3 - 131	119 - 328	435 - 734			3 - 128	213 - 374	20 - 286			97 - 417			3 - 371			225 - 422		2 - 382		
	1638	1639	1640	1641	1642	1643			1644	1645	1646			1647			1648			1649		1650		
	952080	922064	934003	922898	965765	868784			958059	922727	918233			870617			692898			933942		909169		
	HUVFC07	HUVFH03	HUVFH32	HUVF103	HUVFK11	HUVFK58			HUVFL71	HUVFQ03	HUVFR02	•		HUVFT28			HUVFT50			HUVFZ06		HUVGZ77		

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						1			ŀ		22q13.33	•		-												,	
L0779: 1.	H0056: 1 and H0623:	1. H0623: 3	AD080: 3 AD061: 1	H0040: 1, H0056: 1	and H0623: 1.	H0623: 2	H0623: 2 and H0056:	I.	H0056: 1, H0623: 1	and L036/: 1.	H0623: 2 and L0731:	<u></u>				H0623: 2	H0666: 339, H0660: 3,	L0751: 2, H0676: 1,	H0560: 1 and H0520: 1.	H0666: 5	H0666: 2	H0666: 222, L0776: 5,	L0749: 3, S0358: 2,	L0763: 2, L0766: 2,	L0439: 2, L0596: 2,	H0650: 1, H0341: 1,	S0442: 1, H0009: 1,
		Pro-35 to Cor. 46	Pro-5 to Tm-10	Phe-20 to Met-26.	Leu-85 to Trp-92.		Lys-21 to Lys-27.		Leu-23 to Ser-35.		Leu-51 to Val-56,	Ala-69 to Arg-74,	Thr-82 to Thr-91,	Asp-116 to Ile-126,	Ala-142 to Pro-147.	Thr-47 to Arg-53.	Ala-47 to Phe-55.			His-1 to Ser-6.	ę	Arg-8 to Gly-19,	Pro-22 to Cys-29,	Asp-54 to Cys-65,	Ser-68 to Ala-77,	Glu-97 to Ser-103,	Pro-171 to Leu-176.
	4338	4330	4340			4341	4342		4343		4344					4345	4346			4347	4348	4349					
	145 - 354	200 - 400	51 - 344			158 - 39	33 - 221		313 - 522		1 - 486					158 - 361	3 - 206			519 - 632	3 - 62	3 - 560					
	1651	1652	1653			1654	1655		1656		1657					1658	1659			1660	1991	1662					
	868751	963129	908555			868697	205896		652090		924621					868649	69208			925844	933449	9525796		,			
	HUVHB35	HUVHB59	HUVHC93			HUVHD88	HUVHG80 968507		HUVHI07		HUVHO40					HUVHU74	HVCAZ38				HVCCC81	HVCCK04					

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H0178: 1, H0012: 1, H0087: 1, S0150: 1, L0805: 1, L0655: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, S0374: 1, L0602: 1, L0731: 1 and L0758: 1.		H0644: 1, H0658: 1 nd H0672: 1.			L0666: 3 and H0672:	1, AR089: 1	H0038: 1, H0672: 1				3, AR061: 2	H0651: 709, L0766: 5,	L0756: 3,	L0779: 2,	50354: 1,	H0013: 1,	H0545: 1,	H0252: 1,	H0316: 1,
H0178: 1, H0012: 1 H0087: 1, S0150: 1 L0805: 1, L0655: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, S0374: 1, L0602: 1, L0731: 1 and L0758	H0672: 2	H0644: 1, H and H0672: 1	H0672: 2	H0672: 2	L0666: 3 2.	AR061: 1	H0038: 1	and L0758:	H0672: 2	H0672: 2	AR089: 3	H0651: 7	L0754: 5, L0756: 3,	L0803: 2,]	L0759: 2, S0354: 1	H0643: 1,	H0194: 1, H0545:	H0373: 1, H0252:	H0615: 1, H0316:
		Asp-34 to Glu-40.			Cys-14 to Tyr-21.	Glu-38 to Lys-43,	Gly-125 to Thr-132.			Lys-12 to Trp-18, Phe-35 to Thr-42.	Cys-17 to Lys-31.	•				•			
	4350	4351	4352	4353	4354	4355			4356	4357	4358								
	85 - 273	83 - 277	1 - 240	1 - 171	710 - 480	2 - 397			3 - 104	67 - 294	78 - 410								
	1663	1664	1665	1666	1667	1668			1669	1670	1671								
	949141	914354	933675		964102	933167			917559	913996	957834								
·	i 1	HVVAJ01	HVVAJ06	HVVBG19	HVVBK45	HVVBK72			HVVBV44	HVVCO01	HWLHJ68								

	1.	·			1.	,		
			,					179605, 179605,
	,							6p21.1-p12
H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0777: 1, L0780: 1, L0772: 1 and L0686: 1.	L0766: 1 and H0672: 1.	AR089: 14, AR061: 6 H0672: 1	L0731: 2, L0635: 1, L0663: 1, H0672: 1 and L0777: 1.	L0470: 1 and H0623: 1.	L0471: 1 and H0623: 1.	L0766: 3, H0623: 1, L0740: 1, L0745: 1 and L0779: 1.	H0623: 1 and L0439: 1.	AR089: 2, AR061: 2 H0623: 1
			Pro-33 to Gly-38, Leu-45 to Thr-51.	Glu-28 to Arg-36, Pro-41 to Thr-50.	1	Ala-18 to Arg-25.		
	4359.	4360	4361	4362	4363	4364	4365	4366
	137 - 3	2 - 406	288 - 443	215 - 580	1856 - 2053	2 - 397	443 - 204	61 - 1212
	1672	1673	1674	1675	1676	1677	1678	1679
	925793	957658	933528	912011	952479	930892	950681	945834
	HVVDT04	HVVBY08	HVVBM06	ночнг.82	HUVHI06	HUVGP05	HUVFP71	HUVF101

179605, 179605, 179605, 180297, 230450, 248611, 263200, 600364, 601498,														
	H0623: 1 and L0777:	H0056: 1	H0056: 1	H0056: 1	H0056: 1	H0056: 1	H0056: 1	-	H0056: 1	L0745: 3, L0752: 3,	L0803: 1, L0749: 1 and	.0759: 1.	H0055: 1	T0069: 1 and L0779: 1.
	1 1	Gln-26 to Gln-33, I			Gly-12 to Ser-17.			Ser-52 to Arg-60.		,		<u> </u>	1	
	4367	4368	4369	4370	4371	4372	4373		4374	4375			4376	4377
1	112 - 258	13 - 177	2 - 277	200 - 313	1 - 144	80 - 343	420 - 701		1 - 147	2 - 199			521 - 384	120 - 278
	1680	1681	1682	1683	1684	1685	1686	i	1687	1688			1689	1690
	922889	868783	967813	954224	521938	526590	974232		522660	671479			667943	839574
	HUVFE03	HUVD018	HUVD011	HUVDO07	HUVDM27	HUVDH61	HUVCU26			HUVBC21			HUVAA46	HUNAK12

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L0439: 4 and T0069: 1.	AR050: 45, AR051:	39, AR054: 35	T0069: 1	T0069: 1, L0764: 1,	L0771: 1, L0783: 1 and	L0756: 1.	L0754: 4, T0069: 1 and	L0599: 1.	T0069: 1		T0069: 1 and L0764: 1.	•	T0069: 1 and L0766: 1.	T0069: 1 and L0754: 1.	L0748: 2 and T0069: 1.	T0069: 1 and L0747: 1.	H0059: 1 and L0756:	1.	H0059: 1 and L0752:	1.	H0059; 1	H0059: 1	AR054: 9, AR050: 2,	AR051: 1	H0059: 1	H0059: 1 and L0747:	1.	L0766: 2 and H0059:
Ser-33 to Ser-38.	Ser-12 to Ile-19,	Thr-38 to Pro-46.		Glu-26 to His-35,	Pro-44 to Asn-49.				Ala-8 to Ser-14,	Lys-21 to Pro-29.	Thr-26 to Pro-36,	Ile-52 to Ser-60.		Asn-1 to Asn-6.		Lys-1 to Asn-9.		ł	Leu-32 to Tyr-38.		Gly-19 to Ser-24.							Arg-26 to Arg-31.
4378	4379			4380			4381		4382		4383		4384	4385	4386	4387	4388		4389		4390	4391	4392			4393		4394
185 - 352	3 - 221			171 - 326			2 - 205		50 - 214		2 - 388		294 - 491	65 - 199	2 - 190	3 - 170	151 - 65		1 - 174		2 - 241	67 - 213	263 - 433			83 - 226		47 - 364
1691	1692			1693			1694		1695		1696		1697	1698	1699	1700	1701		1702		1703	1704	1705			1706		1707
711543	800452			961527			796691		524239		921132		068896	753817	968754	714264	754186		574525		760581	574523	577349			574381		796014
HUNAG41	HUNAF22			HUNAF20			HUNAE95		HUNAE76		HUNAE02		HUNAD10	HUNAC68	HUNAB76	HUNAB42	HUKFS69		HUKFL89		HUKFL71	\neg	HUKFK53			HUKFES6	\neg	HUKFD95

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1.	H0059: 1 and L0779:	H0059: 1 and L0439:	AR061: 14, AR054:	11, AR050: 9, AR089:	4	L0758: 2, H0059: 1,	L0789: 1, L0665: 1,	L0749: 1 and L0779: 1.	H0059: 1, L0439: 1	and L0747: 1.	L0455: 1, H0059: 1	and L0753: 1.	L0465: 2 and H0059:	1.	H0059: 1, L0657: 1	and L0748: 1.	L0766: 2, H0059: 1,	L0764: 1 and L0774: 1.	,			H0059: 1			H0059: 1	H0059: 1
	Pro-7 to Gly-18.										Met-23 to Gly-34,	Glu-40 to Ser-50.			Lys-27 to His-35.		Arg-1 to Asp-7,	Glu-26 to Ser-31,	Glu-51 to Val-56,	Asp-59 to Val-69,	Glu-85 to Asn-94.	Phe-8 to Glu-15,	Val-20 to Thr-25,	Cys-40 to Glu-49.		Pro-18 to Cys-25.
	4395	4396	4397						4398		4399		4400		4401		4402					4403			4404	4405
	29 - 178	532 - 119	852 - 265		١				234 - 482		33 - 185		3 - 329		1 - 105		76 - 450					77 - 229			84 - 260	2 - 106
	1708	1709	1710						1711		1712		1713		1714		1715			-		1716			1717	1718
	921504	772501	957456						920815		719465		968333		690933		967742					529718			529723	518537
	HUKEY01	HUKER62	HUKEP18			,			HUKDY02		HUKDU47		HUKDG10		HUKCP30		HUKC011					HUKCL85			_	HUKCC15

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H0059: 1	H0059: 1 and L0748:	L0748: 2 and H0059:	H0059: 1	H0059: 1, L0800: 1,	L0794: 1, L0789: 1,	L0747: 1, L0750: 1 and	L0362: 1.	H0059: 1, L0775: 1,	L0664: 1 and L0592: 1.		L0750: 2 and H0059:	1.	H0059: 1	H0059: 1 and L0755:	1		H0059: 1	H0059: 1, L0520: 1,	L0753: 1 and L0731: 1.	H0059: 1	L0439: 2 and H0059:	1.		AR050: 75, AR054: 59, AR051: 51
Arg-16 to Cys-22, Pro-83 to Thr-88.			Ala-47 to Thr-53.	Asp-34 to Arg-41,	Glu-44 to Lys-50.			Arg-1 to Gln-7,	Gln-11 to Ser-17,	Ser-41 to His-46.			Lys-1 to Gln-8.	Ser-30 to Val-38,	Gln-44 to Ser-53,	Pro-56 to Gly-63.	Trp-10 to Gly-16.							Arg-7 to Arg-13, Asn-31 to Ser-37.
4406	4407	4408	4409	4410				4411			4412		4413	4414			4415	4416		4417	4418		5346	4419
399 - 136	351 - 178	379 - 170	150 - 329	314-117				139 - 402			159 - 1		317 - 102	2 - 421			1 - 207	274 - 2		369 - 67	786 - 2		156 - 434	213 - 533
1719	1720	1721	1722	1723				1724			1725		1726	1727			1728	1729		1730	1731		2659	1732
628540	502711	502911	672076	502912				716927			790487		524257	772734		·	625273	677470		503630	503627		503628	869026
	HUKAQ76	HUKA047	HUKAM19	HUKAM18				HUKAL44			HUKAJ91		HUKAJ83	HUKAD77			HUKAB63	HUKAB25		HUKAA54	HUKAA39			HUDBZ01

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S0042: 1		AR054: 2, AR051: 0,	AR050; 0 S0042: 1	S0042: 1	S0042: 1	S0042: 1		S0042: 1			,		S0042: 1			AR051: 32, AR050:	31, AR054: 25	S0042: 1			,	T 0783 1 T 0430 1	L0783: 1, L0439: 1, L0731: 1 and S0042: 1.	H0634: 1 and L0593:	-	H0634: 1, L0662: 1
		Gly-43 to Leu-48,	Ser-57 to Lys-67.			Glu-17 to Ala-30,	Gly-42 to Thr-56.	Glu-1 to Leu-6,	Cys-10 to Asn-28,	Lys-41 to Tyr-50,	Gln-53 to Ser-60,	Pro-67 to His-78.	Phe-2 to Arg-7,	Asn-23 to Asn-32,	Gln-39 to Asn-45.	Thr-14 to Phe-26,	Gln-46 to Arg-52,	Leu-74 to Tyr-84,	Glu-125 to Glu-132,	Tyr-180 to Ser-186,	Leu-216 to Pro-222,	Vai-220 to 1118-231.	Giu-2/ to Giu-33.	Thr-1 to Ser-10.		
	5347	4420		4421	4422	4423		4424					4425			4426						7077	/7++	4428		4429
	191 - 3	77 - 487		147 - 248	56 - 286	39 - 368		3 - 374					3 - 137	ı		18 - 710						100 234	+C7 - 601	1-171		380 - 240
	2660	1733		1734	1735	1736		1737					1738			1739						1740	0+/1	1741		1742
	915945	896388		795796	746508	869034		686520					917361			899753						471074	† /61/0	969547		929206
		HUDBK39		HUDBE95	HUDBE64	HUDBE48		HUDBE28					HUDBE02			HUDAK54						HTMAV10		HTTKG12		HTTKC85

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	14	,							·		
H0634: 1 and L0766:	L0770: 3, L0777: 3, L0518: 2, L0779: 2, L0758: 2, L0608: 2, H0634: 1, L0764: 1, L0803: 1, L0749: 1 and L0752: 1.	H0634: 1 and L0565: 1.	H0634: 1, L0803: 1, L0749: 1 and L0779: 1.	H0634: 1	H0634: 1, L0766: 1 and L0588: 1.	L0745: 2 and H0634:	H0634: 1 and L0731:	H0634: 1 and L0748: 1.	L0157: 1 and H0634:	H0040: 1	H0040: 1 and L0439: 1.
	Glu-53 to Gln-62, Gly-80 to Val-86.	Gln-1 to Trp-16, Asp-18 to Gly-25, Leu-38 to Pro-43, Trp-146 to Gly-153.		Lys-11 to Glu-18.	ı		Ala-10 to Thr-16.	Pro-25 to Thr-31, Pro-59 to Gly-72.	Asn-1 to Arg-11, Val-23 to Ser-28, Asp-35 to Tyr-44.	Leu-21 to Gly-30.	Ser-24 to His-34.
4430	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440	4441
61 - 213	132 - 497	2 - 577	395 - 532	136 - 345	86 - 235	452 - 625	195 - 329	1 - 216	87 - 218	128 - 373	146 - 301
1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754
869602	869612	934094	931024	974323	926772	965920	958169	969568	944914	751809	742004
HTTJV79	HTTJN26	HTTIK06	HTTIX05	HTTIR33	HTTIR04	HTTIN11	HTTIE08	HTTB12	HTTHJ56	HTTFG12	HTTEZ61

												•	104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,
				1 1 1		,	,		•				1q21			<u>-</u>			•					,		
H0040: 1, L0766: 1 and L0748: 1.	H0040: 1, L0803: 1, L0439: 1 and L0777: 1.	AR061: 5, AR089: 5	H0040: 1	H0040: 1, L0740: 1	and L0747: 1.	AR050: 2, AR051: 1,	AR054: 0	L0439: 3 and H0040:			L0483: 1 and H0040:	1.	L0754: 2 and H0040:	<u>.</u>				,								
	Pro-28 to Thr-38, Gly-47 to Arg-52.	Gly-1 to Asp-8,	Leu-15 to Cys-20, Glv-24 to Ser-29.	Arg-2 to Ile-8,	Ser-34 to Cys-44.	Pro-1 to Glu-7,	Thr-29 to Gly-35,	Glu-63 to Ile-68,	Glu-89 to Asn-95,	Glu-98 to Leu-105.	Arg-10 to Asp-15.		Arg-1 to Trp-9,	Pro-13 to Gly-19,	Gly-24 to Pro-32.			,			٠					
4442	4443	4444		4445		4446					4447		4448													
57 - 230	2 - 205	1 - 153		396 - 545		1 - 339		ı			1 - 387		511 - 747													
1755	1756	1757		1758		1759					1760		1761				-									
739445	917156	900662		728344		213669					932294		744438													
HTTEQ59 739445	HTTEQ01	HTTE059		HTTEO53		HTTEJS6					HTTEB05		HTTD059													

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191315, 230800, 230800, 266200, 600897, 601105,	602491									
	,									
	39: 5 0040:	748:	2: 1)748:	755:	040:	040:	748:	592:	040:
,	5, AR089: 2 and H004	and L(l, L074; 2: 1.	and L(and L(and H(and H(and L(and L(and H(
	AR061: 5, AR089: 5 L0748: 2 and H0040:	H0040: 1 and L0748:	H0040: 1, L0742: 1 and L0592: 1.	H0040; 1 and L0748;	H0040: 1 and L0755:	L0745: 2 and H0040:	L0754: 2 and H0040:	H0040: 1 and L0748:	H0040: 1 and L0592:	L0764: 2 and H0040:
	A I	 	an H	H :	<u> </u>	1 L	1 1	1 H	H	T
		o-22.	ys-16, rp-31, ro-46.	Arg-88.	ro-29.	sp-55.	sn-23,	a-26.		ily-20,
		Ala-4 to Pro-22.	Gly-10 to Cys-16, Arg-25 to Trp-31, Pro-39 to Pro-46.	Arg-83 to Arg-88.	Cys-19 to Pro-29.	Ala-50 to Asp-55.	Lys-15 to Asn-23, Asp-75 to Val-82.	Pro-7 to Ala-26.		Arg-12 to Gly-20,
		Ala	Gly. Arg. Pro-	Arg	Cys	Ala-	Lys-	Pro-		Arg
	4449	4450	4451	4452	4453	4454	4455	4456	4457	4458
	177 - 401	2 - 241	41 - 178	3 - 392	2 - 241	63 - 266	162 - 413	3 - 236	3 - 272	1 - 615
-	177	2-	41 -	3-	2-	- 63	162	3-	3-	1
	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771
	460948	694222	766551	784537	796674	709581	665096	524841	714220	932997
	HTTDM42	HTTDL81	HTTDL75	HTTDA85	нттс095	HTTCJ39	HTTCD06	HTTCB87	HTTBR42	HTTBP62
	HT	H	H	HT	HT	HI	HT	н	H	H

																		
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	012011	H0040: 1 and L0/48:	H0040: 1 and L0753:	H0040: 1 and L0766:	H0040: 1	H0040: 1 and L0439:	H0040: 1	L0748: 3 and H0040:	H0040: 1		L0747: 2 and H0040:	H0040: 1 and L0591:	L0595: 2, H0040: 1 and L0794: 1.	L0748: 2 and H0040:	L0769: 2 and H0040:			L0752: 2, H0040: 1
His-102 to Ser-108,	Ala-132 to Gin-137.	Asn-24 to Asp-32.	Arg-18 to Trp-29.	Asp-1 to Gln-14, Phe-18 to Glv-33	Tyr-1 to Tyr-12.			Asn-1 to Cys-12, Asp-20 to Tm-37.	Y				Ser-4 to Lys-12.		Ile-15 to Phe-21,	Pro-31 to Cys-39, 1	Pro-41 to Pro-49, Leu-69 to Pro-74.	
	4450	4439	4460	4461	4462	4463	4464	4465	4466	5348	4467	4468	4469	4470	4471			4472
	021 230	30/ - 1/0	11 - 202	3 - 203	125 - 256	175 - 435	186-311	367 - 627	65 - 262	151 - 342	632 - 787	252 - 440	111 - 230	220 - 420	73 - 294	•		435 - 632
	1770	7//1	1773	1774	1775	1776	1777	1778	1779	2661	1780	1781	1782	1783	1784			1785
	700164	/00104	925409	781590	530559	767520	530567	742377	717736	869717	671488	826343	509454	791413	965134		4	772735
	UTTBOOT	111BU02	HTTBM03	HTTBI80	HTTBH95	HTTBH75	нттвн36	HTTAQ60	HTTAP45		HTTAP21	HTTAP09	HTTAN34	HTTAJ93	HTTAH03			HTTAC77

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and L0756: 1.	L0749: 2, H0040: 1, L0748: 1 and L0591: 1.	H0040: 1 and L0731:	H0618: 1, L0751: 1 and L0758: 1.	H0618: 1	H0618: 1 and L0731:	1.	L0591: 2 and H0618:	L0439: 3 and H0618:	H0618: 1 and L0770:	1.	H0618: 1 and L0771:	1.		AR054: 35, AR051:	24, AR050: 10, AR061:	8, AR089: 3	H0618: 1, L0766: 1	and L0749: 1.		H0618: 1, L0749: 1
	Asn-14 to Leu-20, Gln-30 to Pro-46.			Gln-10 to Ser-16.	Pro-8 to Ala-15,	Arg-23 to Glu-35, Pro-41 to Val-49.		Glu-33 to Arg-40.	Lys-34 to Pro-40,	Glu-51 to Gly-56, Glu-117 to Gly-124.	Pro-42 to Ser-47,	Ala-51 to Arg-68,	;			Thr-128 to Lys-135.			Ser-49 to Lys-58, Glu-75 to Pro-91.	Gln-3 to Arg-10,
	4473	4474	4475	4476	4477		4478	4479	4480		4481			4482					5349	4483
	2 - 271	298 - 137	20 - 241	318 - 491	41 - 277		1 - 345	219 - 527	144-593		724 - 113			736 - 1140		<u>. </u>			1342 - 1788	165 - 878
	1786	1787	1788	1789	1790		1791	1792	1793		1794			1795	-				2662	1796
	793001	710355	934207	974047	808596		870150	870147	870152		933720	·	0,00	894863					946914	865399
	HTTAA94	HTTAA39	HTLIP06	HTLID06	HTLHV59		HTLHU81	HTLHU63	HTLHS69		HTLHS05			HTLHK57		,				HTLH151

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and L0759: 1.		AR061: 1, AR089: 1 H0618: 1 and L0758: 1.	H0618: 1 and L0779: 1.	L0769: 2 and H0618: 1.	L0779: 3, L0758: 3, H0618: 1 and L0600: 1.	L0439: 3, L0753: 3, H0618: 1, L0741: 1, L0745: 1 and L0746: 1.	H0618: 1 and L0758:	L0794: 2, H0618: 1 and L0768: 1.	L0439: 3 and H0253: 1.	H0253: 1 and L0767: 1.	AR089: 33, AR061: 18 L0748: 2 and H0253: 1.	H0253: 1
	Pro-87 to Cys-92, Ser-144 to Pro-158.	Glu-1 to Glu-6.		Ser-25 to Asn-32, His-40 to Glu-45.	Arg-14 to Gly-29.	Ser-1 to Lys-12, Met-22 to Gly-29, Pro-62 to Gly-69.	Glu-35 to Ile-51.	Glu-1 to His-15, Gly-21 to Cys-26, Thr-34 to Pro-42, Pro-49 to Glu-57.	,	Val-25 to Ala-31.	Ala-1 to Ala-35.	Gly-1 to Arg-13, Phe-19 to Arg-33.
		4484	4485	4486	4487	4488	4489	4490	4491	4492	4493	4494
		1 - 375	243 - 566	1 - 483	657 - 950	1 - 393	182 - 388	3 - 350	3 - 305	3 - 416	90 - 422	1 - 429
		1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807
		945862	870172	963458	928245	782194	958304	870228	932882	671151	772363	573400
		нтгнв93	HTLHA63	HTLGS10	HTLGR32	HTLGP84	HTLGK08	HTLGC43	HTLEQ92	HTLEP21	HTLEN77	HTLEM92

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	H0253: 1 and L0439: 1.	L0748: 2 and H0253:	H0253: 1	H0253: 1, L0761: 1,	L0649: 1 and L0805: 1.	L0758: 3 and H0253:		H0253: 1	H0253: 1 and L0439:				H0253: 1	H0253: 1			H0253: 1 and L0768:	1.	H0253: 1	H0253: 1	H0253: 1	AR061: 2, AR089: 1	L0752: 3, L0747: 2,	H0294: 1, H0253: 1,
Glu-28 to Val-34, Trp-58 to Ser-64.	Thr-30 to Glu-35, Asp-101 to Gly-106, Ser-112 to Ser-117.	Thr-6 to Ser-11.	Ser-5 to Arg-17.	His-1 to Cys-8,	His-35 to Phe-40.	Glu-63 to Ala-68,	Gly-84 to Tyr-102.	Ala-28 to Trp-33.	Ser-13 to Gly-19,	Leu-22 to Asn-36,	Asn-57 to Ser-68,	Pro-82 to Trp-107.	Asp-72 to Leu-78.	Gly-6 to Thr-12,	Pro-28 to Arg-34,	Asn-39 to Asn-47.	Arg-50 to Trp-58.		Ala-14 to Asn-22.					
5350	4495	4496	4497	4498		4499		4500	4501				4502	4503			4504		4505	4506	4507	4508		
360 - 599	2 - 355	138 - 317	3 - 296 -	197 - 601		3 - 308	•	1 - 132	2 - 448		-		1 - 285	23 - 199			152 - 382		3 - 143	6-218	50 - 250	1 - 282		
2663	1808	1809	1810	1811		1812		1813	1814				1815	1816			1817		1818	1819	1820	1821		
792812	384492	751842	778180	961353		913669		715439	868533				572853	578921			921045		413333	530039	870290	751985		
	HTLEL16	HTLEG67	HTLDZ81	HTLDW27 961353		HTLD001		HTLDG43	HTLDB18				HTLCZ79	HTLCX66			HTLC002		HTLCG65	HTLCG59	HTLCA03	HTLBH67		

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					6p25-pter										
H0046: 1, H0040: 1, H0063: 1, H0494: 1, S0352: 1, L0769: 1, L0766: 1, L0804: 1, L0805: 1, L079: 1, H0521: 1, L0779: 1, L0780: 1, L0731: 1 and L0758: 1.	L0758: 2 and H0253: 1.	H0253: 1, L0745: 1 and L0750: 1.	L0439: 3, L0438: 2, H0253: 1 and L0769: 1.	H0253: 1	H0253: 1	H0253: 1	H0253: 1 and L0439:		H0253: 1 and L0747: 1.	AR089: 1, AR061: 0	L0439: 2, L0021: 1, H0372: 1 L0769: 1	1.0649: 1, 1.0748: 1	L0485: 1, L0604: 1 and	L0361: 1.	H0616: 1
		His-1 to Trp-11, Lys-13 to Ser-27, Glu-33 to Ser-38.		Phe-2 to Arg-12.		Ala-1 to Trp-18.	Gln-32 to Leu-37,	Gln-65 to Val-70, Thr-73 to Pro-79.	Gly-1 to Thr-9.	Asp-28 to Leu-35, -	Asp-52 to Cys-57.				Ser-37 to Ser-43.
	4509	4510	4511	4512	4513	4514	4515		4516	4517					4518
	259 - 408	3 - 590	133 - 492	1 - 228	28 - 165	74 - 226	3 - 320		133 - 426	1 - 363					311 - 496
	1822	1823	1824	1825	1826	1827	1828		1829	1830					1831
	954111	766270	986069	870300	683247	575343	732480		891628	920507					972746
	HTLBC07	HTLBB72	HTLAI30	HTLAF33	HTLAC61		HTLAB55		HTLAB29	HTFBE02				\neg	HTEQS95

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H0616: 1	H0616: 1 and L0794: 1.	AR061: 4, AR089: 1 L0758: 2 and H0616:	L0748: 2, H0616: 1 and L0747: 1.	L0758: 3 and H0616:	H0616: 1, L0519: 1, L0748: 1 and L0779: 1	AR061: 4, AR089: 1 L0758: 7, L0768: 2, H0616: 1 and L0151: 1.	H0616: 1 and L0779: 1.	H0616: 1 and L0774:	H0616: 1 and L0779:	L0758: 3, H0616: 1, L0794: 1, L0791: 1 and L0779: 1.	H0616: 1 and L0755: 1.
Pro-45 to Pro-50, Arg-64 to Ser-77, Ile-88 to Ala-101.	Pro-71 to Cys-82.	Met-12 to Met-24, Pro-46 to Tyr-52, Are-92 to Lys-97	Val-48 to Gly-54, Asp-63 to Arg-74, Gly-87 to Leu-92.	Ala-1 to Met-6, Gly-9 to Ser-15.	Leu-47 to Thr-59, Pro-73 to Pro-87.	Tyr-1 to Lys-8, Phe-19 to Ser-24, Thr-28 to Ser-34, Pro-54 to Trp-70.		Lys-22 to Asp-27.	Leu-80 to Lys-86.	Asp-16 to Arg-23, Leu-40 to Asp-47.	Glu-1 to Ser-10.
4519	4520	4521	4522	4523	4524	4525	4526	4527	4528	4529	4530
86 - 388	129 - 596	3 - 293	147 - 437	263 - 412	614 - 931	839 - 78	159 - 392	1 - 318	18 - 296	3 - 191	133 - 390
1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843
973426	870516	908528	958291	870559	870549	948475	948845	836721	870581	870588	933294
HTEQS90	НТЕОР03	HTEQN83	нтеово8	HTEPY28	HTEPV63	HTEPE35	HTEOY82	HTEOO83	HTEOE28	HTENY44	HTENV06

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113721, 247200, 600059, 601545	,		,			1 '		,					,			
17p13.3		1-1			,	ı				-					,	
L0755: 2 and H0616:	H0616: 1 and L0768:	L0731: 3, H0616: 1					H0616: 1 and L0794: 1.	L0748: 2, H0616: 1,	L0439. I alld L0/40. I.	H0616: 1		H0616: 1 and L0758:	H0616: 1 and L0362:			AR061: 5, AR089: 1
Arg-30 to Arg-37, Asn-40 to Glu-46, Leu-56 to Arg-64, Ala-85 to Arg-102.	Thr-12 to Ile-17.	Ala-6 to Trp-19, I en-34 to Gln.39	Asp-63 to Arg-76, Thr-94 to Gly-105	Asp-108 to Phe-113,	Lys-122 to Phe-128,	Asn-131 to Glu-136, Arg-142 to Gly-147.	Tyr-2 to His-7.	Pro-43 to Ile-51.		Pro-29 to Thr-34, Cys-42 to Ser-47,	Gln-52 to His-58, Pro-68 to Cys-80		Cys-18 to Lys-43,	Ser-45 to Leu-52, Ser-63 to Ser-68.	Lys-75 to Arg-80, His-113 to Lys-121.	Ser-38 to Pro-45.
4531	4532	4533					4534	4535		4536		4537	4538			4539
3 - 329	15 - 146	54 - 494	١		,		58 - 447	149 - 322		109 - 426		60 - 206	1 - 363			1 - 318
1844	1845	1846					1847	1848		1849	•	1850	1851			1852
773925	870595	806062					958382	795314		974363		958380	880592			813038
HTENS74	HTENR26	HTENQ92				. L	HTENP08	HTENL95	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HTENL73		HTENA08	HTEMY05			HTEMV66

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H0616: 1 and L0758: 1.	AR061: 7, AR089: 5 H0616: 1		L0758: 4 and H0616: 1.	H0616: 1 and L0758: 1.	H0616: 1 and L0439: 1.	H0616: 1 and L0747: 1.	H0616: 1, L0779: 1 and L0758: 1.	H0616: 1 and L0758: 1.	H0616: 1 and L0748: 1.	H0616: 1 and L0594:	_					H0616: 1, L0764: 1,
	Ala-1 to Gln-7, Lys-24 to Ser-30, Pro-44 to Asn-53.	Glu-104 to Asp-112, Leu-152 to Ser-157.	Glu-3 to Cys-9, Gln-32 to Asp-45.			His-15 to Arg-22.	Arg-24 to Pro-30.	His-44 to Phe-49, Pro-53 to Pro-58.		Pro-28 to His-34,	Lys-51 to Arg-59,	Thr-92 to Gln-100.	Ala-106 to Gln-118,	Pro-123 to Leu-133,	Ala-137 to Glu-147, Are-185 to Len-190	Thr-15 to Lys-28,
	4540		4541	4542	4543	4544	4545	4546	4547	4548						4549
,	454 - 963		21 - 197	77 - 361	51 - 137	58 - 378	283 - 573	198 - 374	2 - 250	33 - 641				•		102 - 296
	1853		1854	1855	1856	1857	1858	1859	1860	1861						1862
	944419		915308	964769	775543	938396	870613	849214	787549	806421						952274
	HTEMU66		HTEMS01	HTEMO58	HTEMN80	HTEMM91	HTEMI51	HTEMB57	HTELY90	HTELV29		·				HTELP07

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L0779: 1 and L0758: 1.	L0758: 2 and H0616:	_•		L0794: 2, H0616: 1	and L0758: 1.	H0038: 1 and L0439:	L0766: 2, H0038: 1,	J0637: 1, L0750: 1 and	L0590: 1.	AR051: 29, AR050:	11, AR054: 21, AR089:	11, AR061: 11	H0038: 1	H0038: 1 and L0756:		L0758: 2 and H0038:	H0038: 1 and L0743:	H0038. 1 and I 0505.	HUU30. 1 and LU393:	•				-			
Gly-47 to Thr-54.	Pro-24 to Asn-37,	Asp-43 to Thr-49,	Leu-63 to Gln-72.		34.	His-1 to Lys-7.	Pro-43 to Asn-48.			7	8			Ala-5 to Arg-15.	1	Pro-19 to Phe-28.	Ser-5 to Cys-16,	014-20 to 116-25.			•						
	4550			4551		4552	4553			4554				4555		4556	4557	4558	9000								
	63 - 336			185 - 451		43 - 657	68 - 286			83 - 391	-			105 - 428		92 - 241	282 - 401	1 - 279									
	1863			1864		1865	1866			1867				1868		1869	1870	1871	1								
	954982			618699		754010	812862			942526				772397		793039	717850	653252									
	HTELM71			HTELA02		HTEKU62	HTEKI62			HTEKH17				HTEKD77		HTEJV94	HTEJ046	HTEIN12					-				

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309530, 309585, 312040	10791	107910,	109700,	114240,	134797,	134797	134797,	151670	600839,	601780,	60209		,												
	15q21.1-q21.2 107910,						,	,															,		
	L0748: 2 and H0038:			•								H0038: 1 and L0748:					L0779: 3, L0758: 2 and	H0038: 1.	H0038: 1 and L0366:	T 0750. 4 2 4 TT0028	LU / 30; 4 alia f10038;	H0038: 1 and L0754:			
													Arg-1 to Arg-6,	Pro-17 to Ala-23,	Gly-33 to Gln-40,	Arg-45 to Arg-73.	Thr-1 to Glu-7,		Cys-33 to Asn-38.	Dro_31 to Arg 37	The-39 to Ala-55		lle-12 to Lys-30,	Cys-34 to Lys-39,	Glu-55 to Gln-62,
	4559											4560	5351				4561		4562	4563		4564			
	23 - 301				1				1			601 - 380	1 - 330				79 - 264		383 - 135	3 - 299		178 - 417			
	1872											1873	2664				1874		1875	1876)	1877			
	696784											490772	870649	٠			953801		887112	870660		684711	•		
	HTEJL30					,					O PO A LEWIS A	HIEJC/0					HTEJB07		HTEIS34	HTEIS25		HTEIN26			

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	H0038: 1, L0768: 1,	H0038: 1	1		H0038: 1	H0038: 1 and L0779:	1.	H0038: 1	H0038: 1	L0748: 2 and H0038:		H0038: 1, L0740: 1	and L0754: 1.	H0038: 1, L0779: 1	and L0758: 1.	L0758: 3, L0151: 2,	H0038: 1 and L0779: 1.	L0163: 1 and H0038;	1.	L0758: 3, L0776: 2,	L0779: 2 and H0038: 1.	•				L0439: 2 and H0038:	I.
Val-66 to Lys-72.		Asp-19 to Ser-25.	Ile-1 to Phe-9,	Gly-73 to Gly-82.	Gln-1 to Leu-6.	His-1 to Asp-9,	Lys-37 to Glu-45.	Gln-11 to Cys-18.	Pro-2 to Thr-13.	Glu-1 to Ser-18.		Gly-14 to Val-21,	Thr-25 to Leu-32.	Gln-9 to Ala-21,	Thr-24 to Thr-29.	Lys-30 to Leu-39,	Glu-42 to Ser-53.	Gly-10 to Arg-19.	1	Lys-1 to Arg-27,	Ihr-42 to Met-57,	Gln-89 to Ala-95,	Asp-113 to Ser-119,	Thr-128 to Thr-156,	Phe-179 to Ser-187.	Ala-1 to Lys-10,	r10-27 to Ser-30,
	4565	4566	5352		4567	4568		4569	4570	4571		4572		4573		4574		4575		4576						4577	
	69 - 395	379 - 179	3 - 281		44 - 151	39 - 296		19 - 264	35 - 235	1 - 225		279 - 446		59 - 361		15 - 233		147 - 254		64 - 747						173 - 388	
	1878	1879	2665		1880	1881		1882	1883	1884		1885		1886		1887		1888		1889						1890	
	708304	491030	870667		395868	839966		870671	921926	734983		734976		967439		664436		964956	00000	879076						931017	
	HTEIL36	HTEIJ58			HTEID15	HTEIB38		HTEIB37	HTEIB03	HTEIA57		HTEHX57		HTEHV11		HTEHS17		HTEHUII	TTTT CITTO	HIEGWOZ					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HIEGUSS	

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	H0038: 1 and L0766: 1.	AR089: 3, AR061: 2 L0439: 2 and H0038: 1.	H0038: 1 and L0755: 1.	H0038: 1 and L0749: 1.	H0038: 1	H0038: 1 and L0756: 1.	AR050: 9 AR051: 3		H0038: 1, L0750: 1	and L0755: 1.	H0038: 1, L0766: 1,	L0789: 1 and L0749: 1.	•		L0591: 2, H0038: 1,	L0381: 1, L0779: 1 and	L0758: 1.		H0038: 1, L0744: 1	and L0756: 1.	H0038: 1
Gly-46 to Ser-58, Ile-62 to Cys-67.	Glu-13 to Ser-20, Pro-33 to Phe-38, Ser-41 to Lys-49.		Asp-26 to Trp-35.		Gly-5 to Gly-12.				1		Leu-25 to Asp-35,	Ser-41 to Tyr-47,	Trp-72 to Pro-77,	Lys-106 to Arg-112.	Pro-28 to Tyr-38,	Thr-40 to Lys-48,	Val-61 to Thr-68,	Glu-74 to Gln-82.	Thr-6 to Gln-12.		Ile-1 to Ala-7,
	4578	4579	4580	4581	4582	4583	4584				4585				4586				4587		4588
	130 - 600	3 - 452	272 - 457	74 - 325	3 - 221	2 - 97	3 - 581				3 - 353				133 - 408				150 - 464		2 - 256
	1891	1892	1893	1894	1895	1896	1897				1898			.	1899				1900		1901
	932987	765901	732630	709420	545137	866069	887616				666920				719280				685383		530196
	HTEGS24	HTEGJ74	HTEGJ56	HTEGI38	HTEGH60	HTEGC30	HTEFX90				HTEFU18				HTEF046				HTEFO28		HIEEU78

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		-	102770,	120280,	120280,	166600,	170995,	232400,	232400,	600309,	601414,	601691,	601691,	601691,	601691,	601718,	602094		<u> </u>										
			1p21										•										···						2q37.2
	H0038: 1	H0038: 1	H0038: 1 and L0758:					-						٠				H0038: 1		H0038: 1, L0756: 1	and L0758: 1.	H0038: 1, L0794: 1	and L0758: 1.	L0748: 2 and H0038:		H0038: 1	H0038: 1	H0038: 1	L0601: 2 and H0038:
Arg-26 to Gly-38.		Glu-15 to Ser-20.	Ser-14 to Ser-25,	Leu-42 to Glu-62,	Ala-75 to Thr-84.													Pro-40 to Leu-50,	Ser-64 to Gln-74.		Pro-31 to Ser-38.		•	Ser-11 to Arg-19.					Thr-48 to Ser-53,
	4589	4590	4591								_							4592		4593		4594		4595		4596	4597	4598	4599
	2 - 115-	99 - 227	2 - 280												ı			76 - 303		206 - 373		123 - 341		151 - 288		123 - 260	114 - 344	1 - 204	86 - 511
	1902	1903	1904							,	•			•				1905		1906		1907		1908		1909	1910	1911	1912
	707717	575476	530203															530200		675071		677513		780161		530201	927850	925353	881958
	HTEEU35	HTEEU27	HTEEU18							-								HTEEU17		HTEET22		HTEEF25		HTEEB82		HTEDX39	HTEDX04	HTEDX03	HTEDW96

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					> 16				1	1																
1.			H0038: 1	H0038: 1 and L0749:	H0038: 1 and L0756:	1.	H0038: 1	H0038: 1 and L0779:	1.	H0038: 1	H0038: 1 and L0740:	1.	H0038: 1	H0038: 1	H0038: 1	H0038: 1	AR061: 3, AR089: 1	H0038: 1	H0038: 1	AR061: 6, AR089: 4	H0038: 1	H0038: 1	H0038: 1	H0038: 1		AR050: 42, AR054:
Gly-63 to Arg-68,	Gly-77 to Trp-85,	Arg-131 to Arg-142.	Gly-17 to Glu-29.	Ser-47 to Phe-57.	Gly-22 to Arg-28.												Phe-1 to Pro-7,	Trp-32 to Thr-39.	Gly-2 to Ile-13.	Leu-56 to Leu-63,	Gly-103 to Arg-108.	Asn-1 to Gly-17.	Pro-67 to Gly-75.	Ile-1 to Lys-9,	Pro-88 to Lys-100.	Arg-43 to Thr-50.
			4600	4601	4602		4603	4604		.4605	4606		4607	4608	4609	4610	4611		4612	4613		4614	4615	4616		4617
			1 - 213	86 - 322	2 - 253		147 - 509	625 - 170	,	60 - 197	137 - 283		3 - 143	29 - 322	233 - 409	92 - 26	3 - 311		3 - 170	18 - 353		1 - 249	80 - 385	2 - 361		162 - 371
			1913	1914	1915		1916	1917		1918	1919		1920	1921	1922	1923	1924		1925	1926		1927	1928	1929		1930
	-		530448	785818	727362		934047	960645		767024	766343		522827	208086	522969	961028	591606		522940	615250		522936	522938	869427		890715
			HTEDW59	HTEDV86	HTEDU53		HTEDS40	HTEDS06		HTED075	HTEDK72		HTEDJ92	HTEDJ63	HTEDI09	HTEDI01	нтерн90		HTEDH76	HTEDH42		HTEDH30	HTEDH17	HTEDH06		HTEDG75

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		113900,	126340,	126391,	130410,	134790,	138570,	160900,	173850,	258501,	600040,	602225,	\$77709													
		19q13.3		+ +		•	,	,											ı							
35, AR051: 33 H0038: 1	H0038: 1	H0038: 1	•					•					TYOUS	H0038: 1	H0038: 1			AR061: 8, AR089: 3	L0758: 2 and H0038:			H0038: 1	H0038: 1		H0038: 1 and L0750:	
	Asn-1 to Arg-8, Leu-18 to Asp-23, Glu-84 to His-89.	Leu-22 to Arg-34.											TI 1 to CI- 11	116-1 to GIR-11.	Glu-1 to Gln-7,	Arg-16 to Asp-30,	Pro-35 to Asn-43.	Pro-2 to Trp-7,	His-28 to Gly-35,	Pro-37 to Gly-56,	Gly-68 to Lys-75.	Gly-36 to Gly-52.	Ala-22 to Gly-30,	Asn-36 to Ala-43.	Ser-30 to Arg-36.	
	4618	4619											1630	4070	4621			4622				4623	4624		4625	
	1 - 396	1 - 174		1				•					7-777	117-7	1 - 369			1 - 303				26 - 196	1 - 369		85 - 471	
	1931	1932		,									1033	1001	1934			1935				1936	1937		1938	
$\overline{}$	519947	614726											522077	7400/0	/47308			908406				522997	523002		789732	
	HTEDG26	HTEDF96			•								HTEDE70	CHARTI	HIEDF00			HTEDF22				HTECE66	HTECE62		HTECE61	

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-	-	-	-	4	126650,	126650,	154276,	173360,	1733	602136,	602136,	602136,	602447		-										-		
					7q11-q22	1																					
38: 1	38: 1	38: 1	38: 1		38: 1						,			38: 1	38: 1		38: 1	38: 1	88: 1		1	88: 1	18: 1		8: 1		AR089: 39, AR061: 19
H0038: 1	H0038: 1	H0038: 1	H0038:		H0038:			_						H0038:	H0038: 1		H0038: 1	H0038: 1	H0038:			H0038: 1	H0038:		H0038: 1		AR089
Leu-30 to Arg-40.	Ser-37 to Gly-49.		Ile-1 to Ser-8,	Pro-13 to Ser-19, Gly-31 to Ile-41.	Val-28 to Cys-55,	Arg-71 to Cys-90,	Pro-102 to Pro-107.								Ala-28 to Ser-43,	Ala-57 to Tyr-64.	•	Ala-10 to Thr-18.	Pro-23 to Val-32,	Ala-54 to Ala-60,	Thr-68 to Gly-73.	Glu-39 to Cys-57.	Phe-1 to Gly-10,	Leu-32 to Cys-39.	Ser-21 to Ser-29,	Ala-31 to Thr-37.	Arg-1 to Pro-6.
4626	4627	4628	4629	:	4630									4631	4632		4633	4634	4635			4636	4637		4638		4639
85 - 282	63 - 401	33 - 203	2 - 154		1 - 330									246 - 356	2-211		144 - 341	3 - 119	3 - 251			3 - 173	20 - 142		74 - 202		3 - 365
1939	1940	1941	1942		1943									1944	1945		1946	1947	1948			1949	1950		1951		1952
870723	650885	508104	960428		527210									527214	527203		533795	527209	523029			508142	508124		508144		629829
HTECE51	HTECE39	HTECE31	HTECE08		HTECD94									HTECD88	HTECD70		HTECD65	- 7	HTECD15			HTECC71	HTECC45		HTECC26	\neg	HTECC09

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H0038: 1	H0038: 1	H0038: 1	H0038: 1	I 0754: 2 and H0038.	77. 2 and 1100.50.	H0038: 1		H0038: 1		H0038: 1			H0038: 1 and L0748:		H0038: 1 and L0758:		L0758: 3, L0666: 2,	.0021: 1, H0038: 1 and	5: 1.	L0439: 2, L0717: 1,	8: 1, L0769: 1,	L0772: 1, L0800: 1,	.0666: 1, L0758: 1 and	1:1.	L0439: 4 and H0038:	
0H H0	0H	lle-4 to Lys-23, H0	3	Arg-38 to Glu-44.	1.		Leu-67 to Glu-76.	Glu-16 to Lys-21, H00	<u> </u>		Glu-41 to Trp-46,	Ser-60 to Gln-65.)0H		Glu-7 to Gly-14. H00	1.		Pro-15 to Val-21. L002	L0665: 1	L04	H003	L077	990T	L0601:	Ser-8 to Asn-19. L04	11.
	. 4640	4641	4642	4643		4644	7	4645	†	4040		7	4647	寸	4648	7	4649	<u></u>		4650	1				4651	
	2 - 151	56 - 439	105 - 236	559 - 744		3 - 266		78 - 230	270 011	110 - 30/			123 - 299		23 - 346		134 - 394			151 - 462					371 - 144	
	1953	1954	1955	1956		1957		1958	1050	1939			1960		1961		1962			1963					1964	
	960439	508135	508132	728811		715704		503275	270511	2/0244			921321	0000	8/0/37		960792			679394					503295	-
	·HTECC08	HTECA44	HTECA39	HTEBP54		HTEBO43		HIEBM87	UTEDI 52	CCTGTIU			HIEBJ02	OTTGGGT	HIEBHON	Т	HIEAX06			HTEAV22				_	HTEAU39	

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													,		·				1		109270,	109270, 109270,
					i d																17q21	
L0758: 5, H0038: 1 and L0768: 1.	H0038: 1 and L0758: 1.	H0038: 1	L0740: 3, L0731: 3,	L0748: 2, L0757: 2 and	H0038: 1.	H0038: 1		H0038: 1	L0748: 2 and H0038:	<u></u>	H0038: 1 and L0766:	H0038: 1 and L0758:	1.	L0758: 2 and H0038:	<u>,</u>		H0546: 1, L0598: 1	H0546: 1 and L0757:	1.	H0546: 1 and L0756: 1.	H0546: 1	
		Ser-19 to Trp-27.	Asn-14 to Gln-20,	Arg-28 to Glu-40.		Phe-10 to Ser-16,	Ser-24 to Gly-50.		Ala-15 to Leu-24,	Pro-32 to Cys-41.		Ser-17 to Cys-23,	Pro-25 to Ala-52.	Arg-20 to Tyr-28,	Phe-31 to Arg-38,	Asp-44 to Arg-51.	Arg-17 to Gly-22.	Ala-26 to Pro-31.	4 7 7 14	Phe-1 to Asn-9.	Leu-15 to Phe-35,	Pro-52 to Ser-58.
4652	4653	4654	4655			4656		4657	4658		4659	4660		4661			4662	4663	1000	4004	4665	
45 - 311	79 - 324	373 - 230	3 - 398		1	216 - 434		145 - 336	146 - 268		17 - 172	7 - 324		106 - 348			87 - 218	3 - 380	12 153	751 - 71	15 - 404	
1965		1967	1968			1969		1970	1971		1972	1973		1974			1975	1976	1077	1977	1978	
667184	921323	503298	732562			503533		503546	503623		960469	724751		925522			708291	867537	412001	412991	953051	
HTEAT17	HTEAS02	HTEAR93	HTEAQ55			HTEAJ96		HTEAH75	HTEAG47		HTEAG08	HTEAB50		HTEAA04			HSWBY36	HSWBT69	HCMAPEOU	113 W BE 29	HSWAS65	

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109270.	9270,	113705,	3705,	1200,	148065,	3066,	148066,	3067,	148067,	148069,	3080,	1275,	3610,	190,	5705,	185800,	350,	221820,	232200,	,000	252920,	253250,	1119,	600119,	363,	601844			
100	105	113	113	147	148	148	148	148	148	148	148	154	168	171	176	185	200	221	232	249	252	253	009	009	<u>6</u>	60	_		_
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								•	-								,										L0744: 3, L0021: 1,	H0546: 1, L0768: 1 and 1 0657: 1	1.
													٠				1				•	t .					Lys-1 to Ser-8.		
																											4666		
							1				-																200 - 418		
												_															1979		
																											666302		
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107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750,	258501		120110, 121014, 142470, 156225, 164200, 164200, 601316, 601410,				
19q13.2		,					
H0546: 1	H0546: 1	H0383: 1 and L0589:	S0174: 1 and L0755: 1. 6q22.1-q22.3	S0044: 1 and L0748: 1.	L0749: 4, L0748: 2 and S0044: 1.	L0754: 2 and S0044: 1.	L0731: 2, S0044: 1 and
Asn-19 to Asp-30.			Pro-20 to Ser-27.	Lys-9 to Pro-14.	S	Cys-13 to Pro-26, Pro-34 to Val-40.	
4667	4668	4669	4670	4671	4672	4673	4674
61 - 222	194 - 418	71 - 427	155 - 349	141 - 533	168 - 452	166 - 291	17 - 397
1980	1981	1982	1983	1984	1985	1986	1987
471236	697856	936026	727294	639559	924978	785710	789170
HSWAR63	HSWAQ31	HPWTA06 936026	HPWSA52	HPWDK45	HPWDF03	HPWDE86	HPWCJ90

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L0749: 1.		000044 1	30044: 1				S0044: 1 and L0608: 1.	S0044: 1 and L0581: 1.			S0044: 1 and L0752: 1.		S0044: 1 and L0439: 1.	S0044: 1	L0748: 2 and S0044: 1		•	S0044: 1				S0044: 1	S0013: 1 and L0756: 1	L0748: 2, S0013: 1 and	.0743: 1.	S0013: 1 and L0740: 1.		S0013: 1 and L0746: 1.
Thr-20 to Asp-44,	Ser-47 to Asn-54,	Cor 75 to Cl. 72	Ser-58 to His-68	Sei-59 to 1118-06.	Ser-25 to Glu-33,	Ser-58 to His-68.	Asn-32 to Thr-40.	Arg-1 to Ile-6,	Pro-9 to Met-16,	Gly-32 to Arg-37.	Ser-21 to Pro-29,	Leu-42 to Ser-52.	Gln-1 to Gly-11.		Pro-1 to Pro-9,	Ser-36 to Gly-43,	Leu-48 to Gln-62.	Pro-13 to Arg-23,	Pro-41 to Trp-53,	Pro-56 to Lys=65.	i	Arg-28 to Pro-42.		Asp-9 to Phe-18,	Pro-44 to Trp-52.	His-42 to Lys-52.		
		7678	40/2	22.63	5353		4676	4677			4678		4679	4680	4681			4682			5354	4683	4684	4685		4686	4687	4688
		777 191	171 - 104	205	615 - 686		36 - 164	251 - 520			73 - 258		73 - 219	72 - 215	2 - 250			201 - 1			27 - 275	19 - 165	2 - 178	351 - 614		2 - 637	18 - 155	88 - 261
		1088	1760	2220	9997	i	1989	1990			1991		1992	1993	1994			1995			7997	1996	1997	1998		1999	2000	2001
		638155	22122	012707	01710		707514	720563			676323		535157	575271	932627			468246			867315	693618	829301	848632		773298	526124	961017
		HPWCG85					HPWBF35	HPWBE47			HPWAT23		HPWAJ85	HPWAJ39	HPWAI05			HPWAH19				HPWAG31	HPVAH71	HPVAH41		HPVAC74	HPVAB16	HPVAB01

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H0212: 1, L0750: 1	L0605: 2, H0212: 1	L0777: 4, H0212: 1, L0809: 1, L0664: 1 and	L0750: 1. H0032: 1 and L0748:	L0731: 2 and H0032:	H0032: 1, L0761: 1	H0032: 1	H0032: 1 and L0756:	H0032: 1	H0032: 1 and L0439:	H0032: 1 and L0748:	H0032: 1	H0032: 1				H0032: 1	
Gly-27 to Glu-33, Cvs-46 to Lvs-53			Ser-1 to Thr-9.			Lys-11 to Ser-19, Lys-72 to Gln-78.	Lys-4 to Val-12, Ser-23 to Ser-39.		Glu-41 to Ser-46.	Ile-1 to Arg-6, Val-27 to Gly-32.	Arg-6 to Leu-15.	Gln-14 to Tyr-19.	Arg-22 to Asp-27,	Gln-36 to Glu-42,	Leu-46 to Glu-56.	Cys-73 to Lys-82.	
4689	4690	4691	4692	4693	4694	4695	4696	4697	4698	4699	4700	4701	5355			4702	5356
391 - 549	91 - 351	81 - 470	296 - 472	37 - 177	2 - 166	45 - 278	3 - 248	2 - 298	175 - 462	2 - 115	99 - 236	142 - 315	205 - 11			200 - 454	484 - 320
2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2668			2015	5669
753933	728812	667652	320393	780264	925420	973740	766311	764710	719340	967762	526623	917289	919513			467480	486123
HPRTJ65	HPRTI54	HPRTI16	HPRCV66	HPRCT83	HPRCN03	HPRCM12	HPRCL72	HPRCI73	HPRCG46	HPRCD11	HPRCC22	HPRCA02				HPRBN23	

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	108725,	120700	133171.	136836,	143890,	145981,	147141,	147670,	147670,	147670,	151440,	164953,	188070,	231670,	600276,	600957,	601238,	601843,	601846,	602216,	602477				
	19p13.3-p13.2 108725																								
	H0032: 1 and L0731:	1											1									H0032: 1 and L0748: 1.	L0439: 3 and H0032:	L0756: 3, L0747: 2, L0749: 2, H0032: 1 and	LU/46. 1.
	Met-1 to Asn-9.																		1	·		Ser-21 to Gln-27.		Glu-18 to Val-30.	
5357	4703																					4704	4705	4706	5358
106 - 282	93 - 227														,							183 - 344	1 - 384	338 - 210	373 - 543
2670	2016																					2017	2018	2019	2671
867409	695116																					781636	781637	503140	503152
	HPRBI87																					HPRBH80	HPRAV80	HPRAN56	

H0032: 1	H0032: 1	H0032: 1 and L0749: 1.	H0032: 1			H0032: 1	S0004: 1	H0111: 1 and L0766: 1.	H0111: 1 and L0750: 1.	L0754: 2, H0644: 1, L0747: 1 and L0750: 1.	H0644: 1 and L0755:	H0644: 1 and L0777: 1.	H0644: 1 and L0748: 1.	L0748: 4 and H0644:	H0644: 1 and L0748:	H0644: 1 and L0462:
	Ser-19 to Cys-35.		Gly-7 to Thr-27, Pro-60 to Gln-66.	Ile-1 to Ser-8, Ser-103 to Pro-108.	Arg-9 to Tyr-14.	Thr-13 to Met-23.	Ala-1 to Gln-7.	Lys-13 to Lys-18.		Ser-14 to Arg-19, Glu-43 to Ser-54.	ı	Gln-48 to Asp-65.	Asn-8 to Asp-28.	Lys-15 to Leu-25, Met-29 to Leu-43.	His-4 to Arg-20.	Ser-42 to Ser-52.
4707	4708	4709	4710	5359	5360	4711	4712	4713	4714	4715	4716	4717	4718	4719	4720	4721
300 - 196	3 - 197	267 - 584	281 - 84	3 - 365	1 - 57	2 - 232	2 - 406	192 - 368	30 - 206	558 - 746	105 - 299	3 - 248	87 - 257	242 - 487	2 - 259	277 - 516
2020	2021	2022	2023	2672	2673	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
724753	766496	764757	484691	939849	939850	784594	789290	688962	707476	928283	957945	933895	930874	969483	600856	965636
HPRAN50	HPRAJ75	HPRAG73	HPRAG45			HPRAF86	HPOAB37	HPMSH94	HPMSB35	HPMMK05	HPMMB08	HPMKP06	HPMKC05	HPMJT12	HPMJN08	HPMJK11

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H0644: 1 and L0700:	H0644: 1 and L0774:	H0644: 1, L0606: 1 and L0749: 1.	L0745: 4 and H0644:	H0031: 1	·			H0031: 1 and L0756: 1.	H0031: 1 and L0756:	T 0748- 6 H0031-1	L0747: 1, L0756: 1 and	H0031: 1	H0031: 1 and L0748:	1	I 0747. 2 and 170021.	1.	H0031: 1	L0770: 2, L0779: 2, H0031: 1, L0766: 1,
	Gin-7 to Gly-18, Asp-21 to Met-28.	Tyr-39 to Arg-56.		Glu-36 to Ala-43,	Fro-45 to Lys-57.	Leu-20 to Alg-20,	Trp-90 to Ala-96.	Pro-18 to Glu-24.		Thr-1 to Ser-6	Glu-49 to Phe-63.	Lys-28 to Ser-33.	Gln-6 to Gly-11,	Phe-21 to Thr-30,	AUG-20 to 1111-05.			Pro-41 to Ala-63, Gly-69 to Gly-81.
4722	4723	4724	4725	4726	5261	1000		4727	4728	4729		4730	4731		4732	70	4733	4734
293 - 436	61 - 381	169 - 2	1 - 327	346 - 158	056 69	000 - 00		178 - 378	267 - 440	865 - 1128		85 - 195	177 - 380		6 - 161		203 - 592	112 - 576
2035	2036	2037	2038	2039	7674	t / 07		2040	2041	2042		2043	2044		2045		2046	2047
867615	965627	939682	965628	491004	881472	7/1100		660374	463906	705460		662021	694518		690704		867670	920327
HPMJK03	HPMJI11	HPMJE06	HPMJA11	HPMGX92				HPMGR15	HPMGO88	HPMGM39		HPMGJ16	HPMGD63		HPMFX29			HPMFC02

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L0776: 1 and L0758: 1.	H0031: 1 and L0747:	L0604: 3 and H0031:	L0794: 2 and H0031:				L0794: 2, H0031: 1	and L0779: 1.		H0031: 1 and L0455:	1,	L0439: 2 and H0031:	1.	L0748: 3, H0031: 1 and L0731: 1.	H0031: 1 and L0745:	H0031: 1			H0031: 1 and L0748: 1.	H0031: 1	H0031: 1	H0031: 1 and L0740:
	Gly-4 to His-11, Val-61 to Gly-67.	Leu-21 to Val-36, Pro-38 to Gln-44.	Arg-1 to Phe-9,	Arg-69 to Gln-83,	Lys-85 to Leu-103,	Val-117 to His-122.	Gly-1 to Gln-7,	Gly-21 to Val-26,	Arg-47 to Arg-55,	Lys-11 to 144-11.		4740 Lys-42 to Ile-50.			Ser-2 to Tyr-15.	Leu-7 to Leu-12,	Asn-14 to His-27,	Pro-30 to Lys-37.		Arg-27 to Thr-46.		Lys-1 to Lys-8.
	4735	4736	4737				4738			4739		4740		4741	4742	4743			4744	4745	4746	4747
	2 - 361	214 - 366	1 - 390		1		1 - 258			1-111		150 - 1	30,	629 - 426	2 - 169	323 - 442			156 - 410	2 - 154	215 - 63	84 - 233
	2048	2049	2050				2051			2052		2053	1200	2054	2055	2056			2057	2058	2059	2060
	867674	772503	880787				968350			954567		791407	0,000	772740	764752	203690			781518	572808	368896	783344
	HPMFB26	HPMEG77	HPMDQ89				HPMDP10			HPMDF06		HPMAM93	20 1 1 2 641	HPMAL'//	HPMAL73	HPMAK71			HPMAJ83	HPMAI80	HPMAI10	HPMAH85

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					• •		1												,	
1.	H0031: 1	H0031: 1 and L0758:	H0030: 1 and L0595:	•	,	L0777: 2 and H0030:	H0030: 1 and L0754:	Ι,	H0030: 1 and L0758: 1.	L0747: 2 and H0030:	H0030: 1 and I.0754:	1.	H0030: 1 and L0751:	H0030: 1 and L0756:	1.	L0518: 2, H0030: 1 and L0740: 1.	H0030: 1, L0747: 1	and L0750: 1.		H0030: 1 and L0748:
		Pro-3 to Gly-11, Ser-43 to Len-55	Glu-8 to His-17,	Gln-19 to Gly-43,	Pro-80 to Leu-85.	·	Pro-1 to Ala-12,	GIY-55 to GIR-58.	Ile-36 to Gly-47.	Pro-16 to Ser-23.	Lvs-6 to Asn-12.		Leu-30 to Cys-39.	Glu-4 to Arg-9,	Inr-1 / to Lys-23.	Lys-22 to Ser-39.	Ser-7 to Gly-15,		Thr-96 to Gly-101, Gly-109 to Arg-133.	His-23 to Asn-37.
	4748	4749	4750			4751	4752		4753	4754	4755		4756	4757		4758	4759			4760
	156 - 296	3 - 221	3 - 278		١	338 - 499	179 - 343		283 - 450	359 - 559	18 - 155		202 - 348	144 - 326		745 - 491	85 - 489			197 - 3
	2061	2062	2063			2064	2065	22.00	2066	2067	2068		2069	2070		2071	2072			2073
	867711	968723	679217			921331	731065	1,000	728517	712707	690962		787208	781854		975477	727885			715732
	HPMAH56	HPMAB10	HPLBW22			HPLBW02	HPLBT54	TITE TOTAL	HPLB153	HPLBS41	HPLBQ96		HPLBO90	HPLBN79		HPLBB47	HPLAX14			HPLAV44

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	H0030: 1, L0517: 1, L0740: 1, L0754: 1, L0777: 1, L0755: 1 and L0758: 1.			L0783: 1, L0809: 1 and 10152: 1.	AR089: 1	S0152: 1 and L0601: 1.	and L0439: 1.	L0717: 1, S0152: 1 and		S0152: 1,	.0439: 1 and L0747: 1.	S0152: 1 and L0745: 1.		S0152: 1 and L0604: 1.	S0152: 1 and L0759: 1.	L0532: 1 and S0152: 1.	, AR051:	28		S0152: 1 and L0779: 1.	AR089: 2	-	
1.	H0030: 1, L0517: 1, L0740: 1, L0754: 1, L0777: 1, L0755: 1 ar L0758: 1.			L0783: 1, S0152: 1.	AR061: 4, AR089:	S0152: 1 a	S0152: 1 a	L0717: 1,	L0756: 1.	L0435: 1, S0152: 1,	L0439: 1 an	S0152: 1 a	S0152: 1	S0152: 1 a	S0152: 1 a	L0532: 1 a	AR054: 38, AR051:	29, AR050: 28	S0152: 1	S0152: 1 a	AR061: 6, AR089:	S0152: 1	
	Ser-14 to Phe-20.	Leu-3 to Lys-8,	Leu-45 to Lys-55.	Gln-9 to Ala-15.				Lys-35 to Lys-42.		Glu-8 to Cys-16.		Pro-26 to Phe-35.	1					1		Asn-17 to Met-22.	Gln-1 to Cys-17,	Gln-20 to Lys-28,	Pro-35 to Ser-44.
	4761	5362		4762	4763		4764	4765		4766		4767	4768	4769	4770	4771	4772			4773	4774		
	54 - 461	659 - 372		466 - 341	82 - 408		209 - 352	136 - 327		19-318		50 - 220	19 - 198	44 - 406	177 - 392	155 - 301	280 - 417			212 - 358	246 - 506		
	2074	2675		2075	2076		2077	2078		2079		2080	2081	2082	2083	2084	2085		-	2086	2087		
	968707	968711		963322	929723		928408	965894		859867		918315	974074	867759	922815	949149	889928			915056	951281		
	HPLAI10			HPJFA10	HPJEV95		HPJEU01	HPJET11		HPJES17		HPJEL02	HPJEG53	HPJDW93	HPJDT03	HPJDP54	HPJDF61			HPJDC01	HPJDA25		

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	L0667: 1 and S0152: 1.	S0152: 1 and L0605: 1.	AR054: 34	S0152: 1	S0152: 1	S0152: 1	,				S0152: 1	AR051: 17, AR050: 9,	AR054: .8	S0152: 1	L0758: 3, L0779: 2 and	S0152: 1.	L0748: 2 and S0152: 1.	L0439: 2 and S0152: 1.	S0152: 1 and L0592: 1.	S0152: 1 and L0743: 1.	S0152: 1 and L0748: 1.	S0152: 1, L0740: 1 and	L0752: 7, L0780: 2,	.0586: 1 and S0152: 1.	S0152: 1	
	I	Thr-2 to Asn-8, San-49 to Ser-54			Ser-33 to Lys-41.		Ser-19 to Arg-24,	Pro-43 to Glu-50,	Arg-56 to Phe-64,	Pro-74 to His-87.	Val-23 to Leu-31.	Ile-20 to Trp-33, A	Thr-35 to Gly-45. A	3	Glu-11 to His-16.	SC	I	Arg-14 to Cys-22.	-	Phe-2 to Asp-8.		8	Tyr-10 to Leu-15, I	Glu-32 to Gly-41. LC		Ser-36 to ASn-40.
5363	4775	4776	4777		4778	4779					4780	4781			4782		4783	4784	4785	4786	4787	4788	4789		4790	
252 - 13	1 - 195	148 - 396	210 - 635		3 - 227	62 - 322-		,	-		179 - 274	1 - 210			458 - 291		137 - 373	3 - 182	310 - 591	141 - 518	64 - 249	340 - 546	354 - 145		17 - 154	
2676	2088	2089	2090		2091	2092					2093	2094			2095		2096	2097	2098	2099	2100	2101	2102		2103	
951284	928407	494874	559949		975087	715082					699046	009288			670083		710928	625362	165390	726535	867818	688692	948721		974606	
	HPJCU29	HPJCT81	HPJCT26		HPJCS73	HPJCS43	,				HPJCS32	HPJCN60			HPJCL55		HPJBU40	HPJBU09	HPJBS74	HPJBS52	HPJBS35	HPJBL76	HPJBL30		HPJBK25	

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															•							134580	145260,	600105	600759,	601975	
						ı.4 I		,	,													1q32.1	•		,		
S0152: 1			L0754: 2 and S0152: 1.	S0152: 1					S0152: 1 and L0748: 1.	AR050: 26, AR051:	20. AR054: 10	S0152: 1	AR061: 2, AR089: 1	S0152: 1	,	•	S0152: 1	S0152: 1	S0152: 1	S0152: 1 and L0439: 1.	L0439: 2 and S0152: 1.	S0152: 1	-				AR051: 32, AR050:
Pro-8 to Leu-18,	Gly-45 to Ala-53, Pro-56 to Trp-63,	Pro-67 to Arg-73.	Ser-7 to Lys-12.		Ser-41 to Trp-46,	Cys-57 to Gln-68,	Tyr-79 to Gly-84.						Ser-2 to Arg-7.		Gln-10 to Leu-26.		Pro-75 to Phe-84.			Thr-31 to Glu-37.	Ser-42 to Lys-48.	Leu-17 to Asn-31,	Gly-55 to Ala-62,	Arg-66 to Ala-87.			Leu-62 to Ser-75.
4791			4792	4793	5364			5365	4794	4795			4796		2366	5367	4797	4798	4799	4800	4801	4802					4803
2 - 331			252 - 404	762 - 544	104 - 370	١		643 - 1290	170 - 319	164 - 322			716 - 531		865 - 1110	127 - 612	79 - 360	3 - 176	65 - 166	476 - 652	193 - 2	3 - 278	-				20 - 310
2104			2105	2106	2677			2678	2107	2108			2109		2679	2680	2110	2111	2112	2113	2114	2115				1	2116
974593			717088	607408	884685			885717	806718	887830			824243		892302	945194	754858	751384	734503	000699	725761	419786	•	_		7,0000	887817
HPJBK14 974593			HPJBH45	HPJAX30			,		HPJAU73	HPJAP92			HPJA013				HPJAN69			HPJAJ20	HPJAE51	HPJAA27				\top	HPICG93

	T	 _	T	1	1	T							<u> </u>					-	1	·	_		
						120435,	120435,	126600,	135300,	136435,	152790,	152790,	157170,	182601,	278300,	601071,	601771,	602134					
						2p22-p21	1																
26, AR054: 17 S0150: 1	S0150: 1, L0439: 1 and L0740: 1.	L0439: 2, L0756: 2, S0150: 1 and L0438: 1.	S0150: 1, L0748: 1 and L0439: 1.	L0439: 3, S0150: 1, L0740: 1 and L0749: 1	S0150: 1 and L0748: 1.	S0150: 1 and L0748: 1. 2p22-p21	ı									•			S0150: 1 and L0751: 1.	S0150: 1	S0150: 1	S0150: 1	S0150: 1
				Lys-79 to Phe-85.	Glu-7 to Ser-13.	Val-3 to Gly-14,	Ser-65 to Gly-72.						ı						Ser-49 to Pro-54, Pro-60 to His-70.				
	4804	4805	4806	4807	4808	4809													4810	4811	4812	4813	4814
+	607 - 816	296 - 517	123 - 362	213 - 473	1 - 135 ·	169 - 420				i								,	1 - 285	77 - 178	47 - 247	1 - 186	182 - 289
	2117	2118	2119	2120	2121	2122													2123	2124	2125	2126	2127
	935095	708183	743135	786741	867845	838809												, ,	785971	867850	715037	106869	668489
	HPICE06	HPIBY36	HPIBT62	нРІВО89	HPIBI89	HPBH31												Taran Coo	нгисэз	HPIBB45	HPIBB43	HPIBB32	HPBB19

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		•		•									164731,	172400,	172400,	180901,	180901,	221770,	248600,	600918,	602716					
													19q13.1	I												,
L0748: 2 and S0150: 1.	L0717: 2 and S0150: 1.			•	AR089: 18, AR061: 9	S0150: 1	L0439: 6 and S0150: 1.	S0150: 1 and L0365: 1.		S0176: 1	S0176: 1	S0176: 1	S0148: 1 and L0748: 1. 19q13.1									H0674: 1 and L0362:	H0674: 1 and L0363:	•	H0169: 1 and L0766:	H0169: 1 and L0747:
Ala-6 to Ser-25.	Cys-19 to Trp-24,	Ser-29 to Glu-34,	Phe-47 to Trp-52,	Arg-57 to Gly-68.			Asp-7 to Thr-15.	Lys-91 to Pro-96.		Val-33 to Lys-39.								ı					Lys-2 to Lys-10.			Pro-108 to Gly-113.
4815	4816				4817		4818	4819	5368	4820	4821	4822	4823									4824	4825		4826	4827
223 - 426	41 - 322				185 - 436		102 - 476	547 - 834	172 - 35 .	157 - 273	52 - 189	3 - 209	417 - 127		,							1 - 120	414 - 683		398 - 583	3 - 341
2128	2129				2130		2131	2132	2681	2133	2134	2135	2136			_	-		_			2137	2138		2139	2140
790033	935111				973604		774817	286906	961313	790313	671118	793084	778036									933696	961758		709302	780198
HPIAW91	HPIAV06				HPIAQ70		HPIAP79	HPIAD10		HPHSB91	HPHSB21	HPHSA94	HPHAE81								-1	HPFMG06	HPFMB10		HPFDX38	HPFCZ82

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				,	al .		,											-				,		
1.	H0169: 1 and L0740: 1.	H0169: 1	H0169: 1, L0809: 1 and L0754: 1.	AR050: 7, AR054: 3,	AR051: 1 H0169: 1	AR050: 20, AR051: 4,	AR054: 4	H0169: 1	H0169: 1, L0766: 1,	L0776: 1, L0790: 1,	L0741: 1 and L0779: 1.	L0598: 2, H0169: 1	and L0731: 1.	H0169: 1 and L0777:	1.	L0752: 2, H0169: 1,	L0794: 1 and L0751: 1.	H0169: 1 and L0748:	L0748: 2 and H0169:	1.	H0673: 1, L0805: 1	and L0731: 1.		
			Thr-52 to Tyr-57.	Pro-24 to Gly-44,	Pro-47 to Tyr-56.								-	Cys-6 to His-17.			,	Gly-33 to Arg-39.	Gly-18 to His-30.		Gly-18 to Glu-29,	Leu-55 to Gln-60,	His-109 to Gly-117,	CIY-122 W FIO-121.
	4828	4829	4830	4831		4832			4833			4834		4835		4836		4837	4838		4839			
	298 - 444	33 - 272	93 - 263	435 - 632	١	138 - 245			72 - 251			178 - 294		20 - 187		56 - 274		94 - 261	151 - 393		231 - 623			
	2141	2142	2143	2144		2145			2146			2147		2148		2149		2150	2151		2152			
	430125	968360	675120	867881		526574			723501			860089		732601		867889		921196	928672		969248			
	HPFCZ60	HPFCZ10	HPFCR23	HPFCP82		HPFCP53			HPFCM45			HPFCM27		HPFCL56		HPFCL24		HPFCG02	HPFCA01		HPELD12			

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L0748: 2, H0673: 1	and L0749: 1.	H0673: 1, L0769: 1	and L0768: 1.	H0166: 1	H0166: 1	H0166: 1	H0166: 1		H0166: 1	H0166: 1	H0166: 1	H0166: 1	H0166: 1, L0748: 1	and L0747: 1.	L0770: 2, H0166: 1,	L0665: 1 and L0749: 1.	H0166: 1 and L0745:	1.	L0759: 2 and H0166:			H0166: 1 and L0542:	AR061: 57. AR089: 38	H0166: 1 and L0749:		
					Lys-15 to Gly-25.	Lys-9 to Trp-17.	Lys-26 to Cys-31,	Arg-38 to Asp-46.	Leu-12 to Ser-17.	Asp-20 to His-27.		Thr-78 to Arg-84.	Glu-12 to Thr-39.		Lys-19 to Asn-27.	_			Gly-2 to Cys-7,	Glu-28 to Glu-40,	Glu-53 to Lys-58.	Phe-26 to Trp-32.	Cys-14 to Ser-26.			Cys-14 to Ser-26, Glu-40 to Lys-60.
4840		4841		4842	4843	4844	4845		4846	4847	4848	4849	4850		4851		4852		4853			4854	4855			5369
43 - 165		159 - 350		1 - 111	59 - 148	45 - 245	465 - 387		106 - 300	44 - 301	3 - 98	42 - 317	1 - 228		227 - 313		105 - 341		80 - 277			75 - 284	268 - 504			182 - 361
2153		2154		2155	2156	2157	2158		2159	2160	2161	2162	2163		2164		2165		2166		-	2167	2168			2682
926104		914414		524246	773844	753692	731002		530021	706836	535061	954214	278516		960240		921767	0.00	785942			888/98	910250			912272
HPEKI04		HPEKE01		HPEBT82	HPEBT78	HPEBT68	HPEBT54		HPEBT49	HPEBT34	HPEBT14	HPEBT07	HPEBO67		HPEBL08		HPEBH01		HPEBG89			HPEBG10	HPEBA89			

H0166: 1	H0166: 1 and L0779:	H0165: 1		H0165: 1 and L0744:	L0794: 4 and H0165:	1.	H0165: 1	H0165: 1 and L0526:	1.	L0759: 2, L0769: 1,	L0768: 1, L0794: 1,	L0805: 1, H0658: 1,	L0750: 1 and L0777: 1.	L0439: 2, L0717: 1,	L0803: 1, H0658: 1 and L0777: 1.	L0779: 2 and H0658:	H0658: 1 and L0779:	H0658: 1 and L0756:	L0666: 2, L0766: 1,	H0658: 1 and L0604:
	Gly-14 to Ser-19.		Pro-4 to Thr-17.		Ser-7 to Lys-13,	Leu-29 to Ser-36.	Leu-11 to Ala-18, Gly-22 to Ser-41.			Gly-1 to Thr-13,	Arg-37 to Ser-45,	Arg-52 to Asn-73.			ı		Ala-10 to Lys-18.	Gly-13 to Trp-21.	Pro-65 to His-76,	Asp-11 to Asn-17.
4856	4857	4858	5370	4859	4860	,	4861	4862		4863				4864		4865	4866	4867	4868	4869
2 - 70	2 - 178	83 - 232	776 - 1117	45 - 383	2 - 178	, , ,	199 - 414	186 - 308		261 - 548		ı		287 - 472		311 - 433	25 - 117	118 - 342	448 - 74	54 - 299
2169	2170	2171	2683	2172	2173		2174	2175		2176				2177		2178	2179	2180	2181	2182
742251	928027	468542	589933	761472	968847	,,,,,	514231	867899		965249	, -			928563		913859	965276	965307	968601	951838
HPEBA61	HPEBA05	HPEAG43		HPEAD72	HPEAB12	1000	HPEAA57	HPEAA40		HPDWR11				HPDWN05		HPDVM01	HPDVD11	HPDRU11	HPDRR06	HPDRN07

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				Ç	13																	
1.	L0748: 2, H0658: 1 and L0750: 1.	H0658: 1, L0777: 1 and L0592: 1.	L0523: 1 and H0658:	1.	H0658: 1	L0766: 2, L0776: 2, H0658: 1 and L0779: 1.	L0769: 3 and H0658: 1.	L0770: 2 and H0658:	H0659: 1, L0740: 1	and L0756: 1.	AR089: 6, AR061: 2	H0659: 1	L0659: 2, H0659: 1 and L0779: 1.	L0805: 1, L0776: 1 and	H0659: 1.	L0800: 1, H0659: 1	and L0747: 1.	AR089: 23, AR061: 7	L0439: 2, L0369: 1 and	H0659: 1.	AR050: 18, AR054:	18, AR089: 5, AR051:
		Arg-10 to Gln-16, Pro-24 to Gly-30.	Thr-1 to Asn-13,	Pro-35 to Lys-42.	Arg-23 to Val-29.	Met-6 to His-12.							Arg-40 to Gln-47.	Arg-6 to Arg-11.			•				Pro-18 to Gln-28,	Gln-42 to Asn-49,
	4870	4871	4872	40.42	4873	4874	4875	4876	4877		4878		4879	4880		4881		4882			4883	
	339 - 674	1 - 255	3 - 179	000	120 - 398	280 - 429	338 - 520	30 - 227	207 - 446	1	3 - 332		150 - 347	2 - 328		85 - 222		97 - 249			1 - 369	
	2183	2184	2185	7010	2186	2187	2188	2189	2190		2191	00,0	2192	2193		2194		2195			2196	
	914416	969342	969341	000000	728/66	961782	961881	965491	917480		922149	111111111111111111111111111111111111111	925777	951646		954940		911075			946913	
	HPDRG01	HPDPS12	ПРОРР12	ooDudut.	HPDPC08	HPDOW10	HPD0010	HPDOF11	HPCTK02		HPCTD03		HPCIC04	40000Jah		HPCPM63		HPCOV68			HPCA089	

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						t q		,	,																•	
4, AR061: 2	L0761: 1 and S0146: 1.	S0146: 1	S0146: 1 and L0754: 1.	S0146: 1	S0146: 1				S0146: 1 and L0591: 1.	S0146: 1	L0748: 3, L0603: 2,	H0428: 1, L0771: 1,	L0749: 1 and L0757: 1.		H0428: 1	H0428: 1	H0428: 1 and L0750:	AR089: 7, AR061: 2	H0428: 1	H0428: 1 and L0766:	1.	H0428: 1 and L0462:	1			L0439: 12 and H0428:
Ser-72 to Arg-81.		Lys-9 to Tyr-14, Glu-44 to His-50.		Asp-38 to Ala-43.	Glu-16 to Glu-27,	Glu-35 to Ser-46,	Glu-56 to Ala-64.		Gly-1 to Gly-11.	Pro-21 to Thr-40.	Gly-50 to Thr-57,	Gln-60 to Trp-74,	Glu-86 to Cys-96,	Met-106 to Gly-124.	_		Ser-27 to Gly-32.	Asn-7 to Met-12,		Arg-2 to Cys-11,	Cys-15 to Gly-20.	Glu-25 to Pro-39,	Thr-44 to Tyr-50,	Pro-53 to Gln-60,	Ser-67 to Val-82.	Tyr-17 to Gln-23,
		4884	4885	4886	4887			5371	4888	4889	4890				4891	4892	4893	4894		4895		4896			f	4897
		85 - 237	190 - 348	75 - 275	465 - 271	1	•	145 - 312	2 - 409	8 - 247	49 - 540		_		170 - 328	106 - 201	18 - 179	88 - 444		2 - 172		3 - 323				120 - 299
		2197	2198	2199	2200			2684	2201	2202	2203				2204	2205	2206	2207		2208		2209				2210
		320415	778177	573368	584754			584755	728857	575233	914553				961865	933737	926209	909030		948619		961887				772210
		HPCAK66	HPCAG81	HPCAF65	HPCAD17		,		HPCAB54	HPCAB45	HOVEV01				HOVEU10	HOVEU06	HOVEO04	HOVEE20		HOVDD82		HOVDD10 961887				HOVCP77 772210

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				1		,								
1.	H0428: 1, L0752: 1 and L0759: 1.	H0428: 1 and L0744:	H0428: 1 and L0439:	H0428: 1 and L0750:	H0428: 1	H0428: 1, L0743: 1,	L0744: 1, L0747: 1, L0752: 1 and L0592: 1.	L0439: 2 and H0428: 1.	H0428: 1 and L0581:	H0428: 1, L0764: 1 and L0758: 1.	H0428: 1 and L0740:	L0766: 2, H0428: 1, L0775: 1, L0782: 1, L0783: 1, L0748: 1 and L0758: 1.	H0428: 1, L0748: 1 and L0581: 1.	L0749: 2 and H0428: 1.
Lys-32 to Ser-38.		Lys-1 to Gln-12, Cys-44 to Lys-49.	Arg-30 to Lys-39.	Glu-10 to Thr-18.		Pro-43 to Ser-49.		Asp-33 to Val-38.		Asp-1 to Val-13, Ser-17 to Ser-26.	,		Gln-1 to Leu-7, Ser-32 to His-42.	
	4898	4899	4900	4901	4902	4903		4904	4905	4906	4907	4908	4909	4910
	425 - 586	143 - 301	107 - 265	159 - 257	194 - 322	938 - 75		124 - 252	210 - 380	200 - 604	116 - 424	33 - 263	75 - 353	155 - 355
	2211	2212	2213	2214	2215	2216		2217	2218	2219	2220	2221	2222	2223
	932544	734779	772208	924196	786917	929470		702445	465313	858863	757594	956238	858857	751665
	HOVCO50	HOVCN57	HOVCM77	HOVCM03	H-JVCI89	HOVCI08		НОУСДЗЗ	HOVCC57	НОУВО07	НОУВК69	HOVBK38	HOVBK24	HOVBI67

											,							
H0428: 1 and L0748:	H0428: 1	L0740: 2 and H0428:	H0428: 1	H0428: 1 and L0754:		H0428: 1	H0428: 1	L0516: 2, H0428: 1	and L0753: 1.	H0428: 1 and L0748:	L0748: 5, H0428: 1 and L0749: 1.	H0428: 1 and L0743:	1.	H0428: 1 and L0752:	H0428: 1	H0428: 1	H0428: 1	H0428: 1 and L0748:
	Glu-14 to Pro-19, Arg-24 to Arg-36, Arg-85 to His-90.		Asn-20 to Lys-25.	Val-1 to Thr-11,	Tyr-23 to Leu-31,	Asn-20 to Glu-26.					1	Lys-40 to Phe-47.		Val-41 to Lys-46.		Phe-58 to Arg-67, Leu-71 to Thr-77.		Ile-23 to Cys-35.
4911	4912	4913	4914	4915		4916	4917	4918		4919	4920	4921		4922	4923	4924	4925	4926
1 - 183	2 - 298	275 - 457	203 - 409	179 - 388		168 - 320	147 - 1	2 - 247		112 - 270	3 - 122	279 - 452		2 - 199	22 - 102	245 - 3	181 - 366	36 - 197
2224	2225	2226	2227	2228		2229	2230	2231		2232	2233	2234		2235	2236	2237	2238	2239
669730	904818	750273	827077	736077		713812	921959	745704		678163	725005	953422		932093	953553	016770	578783	608825
HOVBI20	HOVAZ89	HOVAZ65	HOVAY88	HOVAY58		HOVAY42	HOVAY03	HOVAW62		HOVAO25	HOVAN51	HOVAJ07		HOVAI05	HOVAF07	HOVAF01	HOVAC77	HOVAC54

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		•													1										
																									•
H0428: 1	H0428: 1					L0756: 2, L0361: 2,	H0428: 1, L0598: 1 and	L0592: 1.	L0776: 1 and H0648: 1.	L0758: 3, L0779: 2,	H0648: 1 and L0740: 1.	H0648: 1 and L0777:	1.	L0770: 1, L0794: 1,	L0804: 1 and H0648: 1.	H0648: 1 and L0750:	I. I 0750, 2 and 110240.	LV/36: 3 allu fivo46:	l.	TTOC 40. 1 3 T 0750	H0648: 1 and LU/58: 1.	L0751: 3, L0764: 1,	L0518: 1, H0648: 1,	L0/4/: 1 and L0/52: 1.	H0648: 1 and L0596: I.
Gln-12 to Gly-17, Ser-28 to Pro-39.	Asp-1 to Arg-6,	Ihr-31 to Leu-43,	Val-53 to His-59,	Pro-61 to Val-73,	3cr-01 10 3cr-90.				Lys-38 to Lys-50.	Thr-31 to Lys-40.				Arg-21 to Leu-27.		Pro-48 to Phe-72.	Vol 16 to The 26	val-10 to 1111-20,	Pro-50 to Ser-36,	Tris 24 to Clir 41	Lys-34 to Gly-41.	Pro-42 to Asp-55.			Glu-34 to Glu-44.
4927	4928				0007	4929			4930	4931		4932		4933		4934	1035	1001		4026	4930	4937			4938
45 - 278	3 - 407				200	256 - 477			210 - 359	508 - 239		17 - 283		3 - 260		205 - 420	37 - 210	017 - 10	_	248 370	740 - 3/3	280 - 444			2 - 205
2240	2241				07.00	7.77			2243	2244		2245		2246		2247	2248	0		22.40	6477	2250			2251
578810	821818				570701	16/8/6			961499	925784		925774		925783		965292	767860	12001		017151	17474	928644			922510
	HOVAB85				TOWA DC1	HOVABOI		- 1	HOOKF10	HOOKF04		HOOJU04		HOOJN04		HOOJK11	HOOTHOS			HOOTEON	11001502	HOOIL05		- 1	НООІСОЗ

									,												
H0648: 1, L0748: 1, L0751: 1, L0754: 1 and L0749: 1.	H0648: 1, L0754: 1 and L0750: 1.	L0666: 1 and H0648:	H0028: 1 and L0792:		H0028: 1 and L0777:	1.0766·1 and T0068·1	AR051: 655, AR050:	494, AR054: 346	T0068: 1	T0068: 1 and L0749: 1.	T0068: 1 and L0592: 1.	AR061: 1, AR089: 1	T0068: 1 and L0779: 1.	H0435: 1	L0774: 1 and H0435:	1.	H0435: 1	L0439: 2 and H0435:	1.	H0435: 1 and L0743:	H0435: 1 and L0748:
Phe-13 to Gln-24.		Arg-1 to Cys-10, Lys-17 to Gly-24.	His-1 to Gln-7,	Gly-14 to Gly-23, Leu-50 to Arg-67.	Ser-66 to Pro-76.	Glu-1 to Lys-6				Gly-18 to Thr-32.	Ser-6 to Lys-14.			Ser-1 to Gly-11.		-	Lys-10 to Asn-16.				
4939	4940	4941	4942		4943	4944	4945			4946	4947	4948		4949	4950		4951	4952		4953	4954
210 - 374	1 - 171	1 - 150	249 - 49_		196 - 579	3-116	677 - 333			344 - 559	174 - 290	732 - 1040		2 - 145	163 - 414		484 - 732	389 - 763		205 - 441	1 - 240
2252	2253	2254	2255		2256	2257	2258			2259	2260	2261		2262	2263		2264	2265	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7266	2267
917424	969061	933873	522227		932925	968610	936029			723571	747152	859016		973221	922578		973227	657284	, 2007,	463874	964761
НООНР02	НООНЕ67	90ОНООН	HOOAB23		HOOAB05	HONAK10	HONAH06		\neg	$\overline{}$		HONAD02		HOGEW23	нодроб		HOGCW89	HOGCT13	TO COLL	HOGCK31	HOGCR10

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		223900,	253800,						, ,								•
		9q31.2			.,									-			
1,	L0766: 3 and H0435:	H0435: 1 and L0748:	. .	L0369: 1 and H0435;	I. H0435: 1	L0745: 2 and H0435:	1. L0748: 2 and H0435:	H0435: 1 and L0439:	1. H0435: 1 and L0747:	H0435: 1	H0435: 1 and L0777:	L0748: 2 and H0435:	H0435: 1 and L0596: 1.	L0747: 2, H0435: 1,	L0742: 1, L0596: 1 and		
	Ser-19 to Asp-31.					Gly-2 to Tyr-8.	Arg-8 to Leu-17.	Ser-17 to Trp-23.	Arg-1 to Phe-13.		Lys-3 to Phe-8.	Arg-1 to Gly-19, Lys-35 to Trp-43.	Asp-22 to His-28, Arg-49 to Ser-54.	Lys-10 to Ser-15,	Arg-44 to Ser-62,	Lys-115 to Phe-124,	Glu-137 to Asp-148,
	4955	4956		4957	4958	4959	4960	4961	4962	4963	4964	4965	4966	4967			
	3 - 608	2 - 202		126 - 509	247 - 393	101 - 241	298 - 501	208 - 50	2 - 163	973 - 779	227 - 379	221 - 397	163 - 369	2 - 634			
	2268	2269		2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280			
	859076	930813		859077	761991	745130	750308	847191	682232	908904	764490	681919	760431	734848			
	HOGCQ54	нодсн05		HOGCE07	HOGCD61	HOGCC63	HOGCA65	HOGBJ26	HOGBE27	HOGAM56	HOGAI73	HOGAI26	HOGAH71	HOGAG57			

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				104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	600897,	601105,	601412,	601652,	602491
				1921																						
	L0748: 2 and H0435:	H0435: 1	H0415: 1	H0415: 1	,	•				·				٠						-						
Gly-165 to His-171, Glu-189 to Lys-211.			Asp-48 to Glu-53, Pro-72 to Ser-81.	Glu-17 to His-23,	His-26 to Ser-34,	Gly-40 to Glu-45.					•				,											
	4968	4969	4970	4971																						
٠	298 - 576	578 - 324	46 - 336	213 - 28																						
	2281	2282	2283	2284																		_	-			
	772319	756713	789232	533713																		····				
	HOGAD77	HOGAC69	HOFNW81	HOFNW69																						

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H0415: 1	AR089: 5, AR061: 3			H0415: 1		H0415: 1				L0748: 2 and H0415:	1.		H0415: 1			H0415: 1				H0415: 1	H0415: 1	H0415: 1			H0415: 1	H0415: 1	H0415: 1	H0415: 1
Lys-18 to Asp-23.	Arg-14 to Asn-19,	Ala-35 to Ser-45,	Gln-74 to Glu-90.	Asn-12 to Glu-19,	Lys-30 to Phe-35.	Arg-10 to Arg-19,	Asn-50 to Ser-61,	Met-65 to Lys-71,	Ala-83 to Asn-89.	Phe-5 to Pro-10,	Gln-71 to Ser-77,	Lys-86 to Glu-91.	Pro-3 to Ala-17,	Asn-56 to Asp-62,	Gln-85 to Gly-100.	Gln-1 to Ser-6,	Ser-36 to Ser-45,	Leu-47 to Pro-54,	Arg-59 to Gly-69.			Arg-1 to Arg-6.	Gly-9 to His-30,	Arg-48 to Pro-57.		Gln-7 to Gly-15.		
4972	4973			464		4975				4976			4977			4978				4979	4980	4981	5372		4982	4983	4984	4985
1 - 132	3 - 431			2 - 118		37 - 411				3 - 347			3 - 380		,	90 - 323				1 - 138	52 - 273	59 - 253	1 - 177		151 - 351	166 - 408	111 - 302	35 - 232
2285	2286			2287		2288			•	2289		-	2290			2291				2292	2293	2294	2685		2295	2296	2297	2298
753048	815822			720755		953436				724437			888569			788947				784366	760643	760392	773729		859094	859093	713816	859102
HOFNW68	HOFNW65			HOFNW45		HOFNW07				HOFNU50			HOFNL96			HOFNI90				HOFNI85	HOFNI72	HOFNI71			HOFNI58	HOFNIS6	HOFNI42	HOFNI37

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H0415: 1	H0415: 1	H0415: 1	H0415: 1	AR051: 12, AR050:	12, AR054: 10, AR061:	2, AR089: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1		AR050: 84, AR054:	73, AR051: 55, AR089:	21, AR061: 8	H0415: 1	AR051: 10, AR054: 9,	AR050: 2	H0415: 1	AR051: 15, AR050: 9,	AR089: 7, AR061: 5,	•	H0415: 1	H0415: 1
	Gly-1 to Gly-11, Thr-59 to Gly-64.		Gln-16 to Gln-23.	Ser-9 to Lys-18.				Glu-21 to Asp-26.		Arg-1 to Thr-15.	Arg-18 to Lys-24.	Arg-18 to Gly-24.	Glin-85 to Pro-91.			Val-17 to Glu-24.	ı			Asp-1 to Leu-10,	Glu-38 to Cys-74.	1	Asp-1 to Asp-17,	Pro-61 to Asn-66,	Tyr-84 to Tyr-90,	Ser-103 to Trp-110.	
4986	4987	4988	4989	4990				4991	4992	4993	4994	4995	4996	4997	5373	4998	•			4999			2000				5001
3 - 263	2-217	2 - 193	1 - 201	1-315	,			139 - 243	179-3	2-67	187 - 432	2 - 154	256 - 528	993 - 625	217 - 402	87 - 239				3 - 269			3 - 359				3 - 461
2299	2300	2301	2302	2303				2304	2305	2306	2307	2308	2309	2310	2686	2311				2312			2313				2314
859103	699299	964682	917347	835718				774037	613681	731801	725684	489858	743184	824242	902061	888552				891512			947973				972725
HOFNI33	HOFNI32	HOFNI10	HOFNI02	HOFNC80				HOFNC79	HOFNB63	HOFNB55	HOFNB51	HOFMU70	_ [HOFMU29		HOFMT55				HOFMT45			HOFMS43 947973				HOFMS09 972725

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AR089: 20, AR061: 9	H0415: 1			AR089: 2, AR061:	H0415: 1														H0415: 1	•	AR050: 21, AR051:	10, AR054: 9	H0415: 1	H0414: 1	AR054: 15, AR051:	AR050: 0	H0414: 1	
Arg-08 to Un. 104	Lvs-28 to Val-33.	Gln-40 to Gly-48.	Asn-33 to Leu-38.	Thr-1 to Lys-7,	Ala-17 to Arg-33,	His-35 to Asn-45,	Glu-47 to Arg-52.	Phe-8 to Ser-21,	Ile-28 to Arg-33,	Ile-40 to Gly-49,	Ala-56 to Gln-61,	Gln-69 to Ser-76,	Ala-91 to Tyr-96,	Thr-119 to Cys-126,	Ser-132 to Arg-144,	Thr-147 to Asp-158.	Arg-17 to Leu-32,	His-43 to Cys-54.	Asp-1 to Asn-6,	Met-46 to Phe-53.	Arg-1 to Gly-14,	Glu-35 to Leu-42,	Thr-54 to Lys-61.		Pro-19 to Arg-27,	Ser-36 to Asn-42,	His-101 to Pro-107,	Gly-150 to Gln-155,
5002	5003		5374	5004				5375									5376		5005		2006			2007	2008			
1 - 372	145-2		3 - 839	2 - 169		1		3 - 476				•					1 - 447		3 - 395		2 - 397			271 - 993	3 - 527		•	
2315	2316		2687	2317				2688									5689		2318		2319			2320	2321			
943358	491360		859125	186569				694062									909248		788733		888780			942367	886485			
HOFMP09	HOFMI25			HOFMF82															HOFMF81		HOFMF19			HOFAF25	HOFAD78			

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	L0623: 2, H0615: 1 and L0519: 1.	H0615: 1, L0435: 1	H0615: 1, L0520: 1	H0615: 1 and L0754:	H0615: 1 and L0758:	1.	L0471: 1, H0615: 1,	L0748: 1 and L0749: 1.	L0471: 1, H0615: 1	and L0748: 1.	L0777: 2 and H0615:		H0615: 1 and L0775:	-1		H0615: 1 and L0666:	1.	H0615: 1, L0775: 1	and L0748: 1.	L0747: 2 and H0615:			
Ser-167 to Thr-175.	Gly-13 to Ser-20, Arg-41 to Thr-47.			Thr-26 to Ser-33.	Arg-1 to Val-10,	Trp-12 to Tyr-20, Arg-47 to Ser-63.						Fne-8 to Ser-14.	Pro-15 to Gly-24,	Cys-36 to Ile-44,	Arg-// to Pro-112.	Ser-17 to Gln-29.		Ser-2 to Ile-16.		His-1 to Arg-7,	Ala-45 to Arg-52, 1	Ser-75 to Leu-80,	Arg-89 to Asp-94,
	5009	5010	5011	5012	5013		5014	2016	2012		5016		5017			5018		5019		5020			
	3 - 143	91 - 309	128 - 328	114 - 278	338 - 610		461 - 610	27. 7.00	237 - 368	1	122 - 358		3 - 494			3 - 170		222 - 491		3 - 563			
	2322	2323	2324	2325	2326		2327	2230	9767		2329		2330			2331		2332		2333			
	951875	929321	926200	952193	690996		859300	010476	0/4016		963350		842138			885696		926278		795281			
	HODKG07	HODJU05	HODJL04	НОДНЖ07	HODHG11		HODGL88	HODGIO	20000011		HODEY 10	0,,,,,	HODEX19			HODFX12	_	HODFX04		HODFW95			

	H0615: 1, L0805: 1 and L0776: 1.	H0615: 1 and L0756:	H0615: 1	L0777: 2 and H0615:	H0615: 1	H0615: 1	H0615: 1 and L0362:	AR054: 34, AR051:	29, AR050: 23, AR089:	4, AR061: 4 H0615: 1	H0615: 1 and L0748:	AR061: 10, AR089: 4	H0615: 1	H0615: 1 and L0749:	H0615: 1	L0748: 3 and H0615:	H0615: 1 and L0748:	L0534: 1 and H0615:
Arg-139 to Glu-158.			Lys-1 to Thr-22.					His-8 to Gly-18,	Glu-150 to Leu-167.			1		Thr-47 to Lys-53.	His-34 to Trp-39.			
	5021	5022	5023	5024	5025	5026	5027	5028			5029	5030		5031	5032	5033	5034	5035
	386 - 556	35 - 199	239 - 463	326 - 460	81 - 338	453 - 593	1 - 150	14 - 544		ı	85 - 249	1-576		66 - 242	215 - 436	2 - 286	354 - 127	90 - 200
	2334	2335	2336	2337	2338	2339	2340	2341	•		2342	2343		2344	2345	2346	2347	2348
	859320	783789	948703	590996	974317	974916	179191	974911			656936	909812		774156	974337	915167	952194	963474
	HODFW40	HODFR85	HODFL37	HODFJ11	HODFI66	HODFH45	HODFG82	HODFF88			HODFE04	HODFD73		HODFC79	HODEZ45	HODEU01	HODET07	HODES10

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H0615: 1, L0376: 1	H0615: 1 and L0753:	H0615: 1, L0060: 1 and L0462: 1.	H0328: 1 and L0748:	H0328: 1 and L0756:	H0328: 1 and L0748:	H0328: 1		H0328: 1, L0373: 1	and LU///: 1.	AR051: 30, AR050: 10 H0328: 1	H0328: 1, L0748: 1	and L0596: 1.	H0328: 1, L0748: 1	and LO439: 1.	H0328: 1 and I 0777.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	H0328: 1	H0328: 1 and L0748:	H0328: 1
	Leu-1 to Phe-8.			Thr-1 to Val-7.	Arg-21 to Phe-27, Ser-45 to Tro-50.		Pro-46 to Tyr-51.	Asp-1 to Asp-8.		Pro-35 to Lys-46.	J		Asn-36 to Thr-47.						Ser-51 to Leu-56,
5036	5037	5038	5039	5040	5041	5042	5377	5043		5044	5045		5046	5047	5048	2	5049	5050	5051
2 - 136	420 - 596	3 - 527	73 - 393	301 - 453	83 - 235	271 - 420	173 - 481	3 - 200		71 - 208	3 - 203		214 - 414	212 - 352	40 - 207	; !	187 - 393	82 - 219	28 - 354
2349	2350	2351	2352	2353	2354	2355	2690	2356		2357	2358		2359	2360	2361		2362	2363	2364
859364	779245	859375	745810	531075	765863	420051	704622	920961	7,700	745966	875811		764543	859543	781287		868291	660502	973286
HODEO35	НОДЕК82	HODEA14	HODDX64	HODDS89	HODDS74	HODDF37		НОДОБОЗ	T	HODCZ64	HODCZ39	SELECTION OF THE	HODCY/3	HODCY32	HODCW83		HODCV61	HODCO15	HODCJ84

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	H0328: 1, L0455: 1	H0328: 1 and L0749:	H0328: 1 and L0748:	H0328: 1, L0527: 1 and L0749: 1	L0598: 2 and H0328:	AR051: 91, AR050:	61, AR054: 56 H0328: 1	H0328: 1	H0328: 1	L0794: 2, L0750: 2,	H0328: 1, L0766: 1,	L0803: 1, L0788: 1 and	H0328: 1 and L0792:	1.	L0731: 2 and H0328: 1.	H0328: 1 and L0748:	L0731: 3 and H0328:	L0745: 2, H0328: 1,
Ser-84 to Leu-90.	Val-10 to Glu-16.	Asn-44 to Asn-51.		Pro-43 to Ser-54.	Pro-33 to Phe-39, Tyr-50 to Ser-56.	Gly-1 to Ser-17.		Tyr-35 to Ile-42.		Leu-1 to Gly-12.					His-1 to Gly-6, Cys-9 to Thr-18.	Thr-8 to Arg-14, Ser-37 to Glu-42.	Ser-8 to Ser-13.	
	5052	5053	5054	5055	5056	5057		5058	5059	9090			5061		5062	5063	5064	5065
	397 - 552	62 - 313	60 - 236	344 - 595	99 - 266	203 - 460		1 - 159	24 - 215	2 - 193			196 - 336		126 - 308	104 - 340	280 - 486	18 - 257
	2365	2366	2367	2368	2369	2370		2371	2372	2373			2374	1	2375	2376	2377	2378
	932633	792611	784526	960178	766284	859558		742114	529387	702750			529389	0000	6/576/	764670	529635	721931
	HODCC05	HODCA90	HODBZ85	HODBX08	HODBU72	HODBK84		HODBF61	HODBF40	HODBF33			HODBF17	TOTAL OFF	ноивруз	HODBD73	HODBC42	HODBA48

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	-			t d			9p13-p12															
L0740: 1 and L0759: 1.	H0328: 1	L0748: 2 and H0328:	1. H0328: 1	L0748: 3, L0740: 2,	H0328: 1, L0766: 1,	L0803: 1, L0659: 1,	۰ اد		1.	H0328: 1 and L0596:	H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0748:	H0328: 1		H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0605:
	Glu-1 to Gly-13, Gly-21 to Thr-28,	Pro-1 to Gly-12.	Lys-1 to Ser-7							Arg-15 to Thr-22, Ser-28 to Arg-33.			Asp-1 to Arg-8.		Pro-1 to Gly-20,	Ser-27 to Ser-34.				Tyr-15 to Gln-27.	Lys-42 to Thr-47.	
	2066	2905	5068	5069			5070			5071	5072	5073	5074	5075	5076		5077	5078	5079	2080	5081	5082
	2 - 205	2 - 103	43 - 210	177 - 308			2 - 169 -			2 - 133	1 - 135	1-117	21 - 101	92 - 319	77 - 253		3 - 167	2 - 298	113 - 238	64 - 198	93 - 251	49 - 198
	2379	2380	2381	2382			2383			2384	2385	2386	2387	2388	2389		2390	2391	2392	2393	2394	2395
	826693	723449	592179	679165		-	745532			932639	529638	529637	529639	089126	790588		/84534	529560	529563	859582	529570	859583
	HODAZ21	HODAX45	HODAV84	HODAV24		,	HODAK55			HODAK05	HODAE72	HODAE55	HODAE48	HODAE01	HODAA92	1011	HODAA85	HODAA80	HODAA69	HODAA54	HODAA34	HODAA21

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1	H0328: 1	H0328: 1	H0328: 1	L0755: 2, L0758: 2,	L0717: 1, L0365: 1 and	H0660: 1.	L0748: 2, L0756: 2,	L0372: 1, L0663: 1,	L0665: 1, H0660: 1,	L0439: 1 and L0777: 1	L0766: 1, H0660: 1	and L0758: 1.	L0766: 3 and H0660:	<u></u>	L0763: 1, L0776: 1 and	H0660: 1.			H0660: 1 and L0731:	1. U0660: 1 and 1 0740.	110000, 1 and L0/49.	•		H0687: 1, L0803: 1	and L0666: 1.	L0766: 4, L0439: 4,	L0646: 1, H0651: 1,
							Arg-14 to Cys-20,	Val-34 to Cys-43,	Pro-45 to Ser-52.		Ser-18 to Ser-27.		Phe-19 to Tyr-34,	Ser-41 to Arg-51.	Ser-19 to Tyr-28,	Glu-34 to Val-45,	Gly-53 to Pro-58,	Glu-63 to Gln-82.	Asp-21 to Leu-45.	Pro 21 to Cly 26	Ser-60 to Len-65.	Gln-69 to Thr-76	Gly-81 to Glu-87.			Thr-12 to Ser-19,	Lys-28 to Ala-39.
	5083	5084	5085	9809			2087				2088		5089		2090	-			5091	5002	1000			5093		5094	
	84 - 131	21 - 107	58 - 303	114 - 377			139 - 327				49 - 240		108 - 314		112 - 390				2 - 484	432 - 136				1517 - 1771		464 - 625	
	2396	2397	2398	2399			2400				2401		2402		2403				2404	2405)			2406		2407	
	523382	954157		928651			917453				91 7 630		951744		914464				878363	914552				220696		926258	
	HODAA15	HODAA07	HODAA04	HOCPU05			НОСРН02				HOCPF02		HOCOV07		HOCMM01				HOCMI24	HOCMC01				HNOJJ12		HNOAD04	

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-			•																	- 5	1101450,	232800,	600808,	601284,	601769,	601769,	602116
							14	,	,											172177	C.C.1 p2.1						
L0756: 1 and L0759: 1.	H0678: 1	AR051: 4, AR054: 0	H0678: 1	S0326: 1	S0326: 1	S0326: 1, L0769: 1 and	L0774: 1.	H0662: 1 and L0748:	H0662: 1 and L0766:	-	H0662: 1, L0794: 1	and L0758: 1.	H0662: 1 and L0524:		H0662: 1, L0764: 1,	L0803: 1, L0774: 1,	L0758: 1 and L0599: 1.		1	U0552. 1 and 1 0754.	110333. 1 alla LU/34.	<u>.</u>					
				Gln-27 to Asn-35.		Arg-14 to Trp-19.			Tyr-6 to Thr-15.		Glu-1 to Tyr-7,	Pro-42 to Leu-47, Pro-50 to Ala-57.	His-1 to Phe-6,	Asn-58 to Met-65.	Pro-6 to Cys-24,	Glu-26 to Trp-37,	Asn-65 to Leu-73,	Gln-81 to Gly-90,	Gly-100 to Gly-115,	ASIL-110 W 301-120.							
	2092	960\$		2097	2098	6605		5100	5101		5102		5103		5104					5105	010						
	358 - 161	588 - 361		111-1	2 - 346	387 - 73	١	91 - 192	3 - 104		321 - 521		109 - 336		3 - 437					3-245	CF 7 - C						
	2408	2409		2410	2411	2412		2413	2414		2415		2416		2417					2418	011						
	957719	899742		683077	764172	974750		917719	922402		933673		914361		961734					754476							
	HININIB08	HNNNA07		HNIAB92	HNIAB73	HNIAB26		HNBVH02	HNBVC03		HNBUQ06		HNBU001		HNBUI10					HI WFI69	200						

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			256540,	600281									•							
			20q13.1		,	ı														
H0553: 1 and L0794:	L0617: 1 and H0553:	H0553: 1 and L0747: 1.	H0553: 1 and L0758:	·	H0553: 1 and L0512: 1.	H0553: 1 and L0740:	H0553: 1 and L0596:	H0553: 1 and L0748:	-:	H0553: 1 and L0756:	H0553: 1 and L0752:	•	•	H0553: 1, L0591: 1	and L0595: 1.	H0553: 1, L0783: 1	and L0749: 1.	H0553: 1		
5106 Lys-38 to Gly-43.	Gln-1 to Ala-17, Arg-47 to Gln-52	Lys-1 to Thr-6, Ser-32 to Ser-38.			Trp-5 to Lys-11.	Pro-31 to Gln-38, Ser-58 to Gly-69.	Phe-1 to Gly-6,	Glu-4 to Ala-9.		Val-33 to Ser-38.	Pro-14 to Arg-26,	Pro-28 to Ser-33,	Gly-48 to Ala-56.		Lys-76 to Phe-96.		а	Pro-6 to Glu-18,	Pro-20 to Trp-40,	Lys-86 to Arg-92.
5106	5107	5108	5109		5110	5111	5112	5113		5114	5115			5116		5117		5118	·	
56 - 328	1 - 204	179 - 331	2 - 259	١	1 - 216	215 - 514	1 - 207	219 - 392		2 - 250	1 - 297			3 - 503		278 - 466		278 - 3		
2419	2420	2421	2422		2423	2424	2425	2426		2427	2428			2429		2430		2431		
915399	963548	787632	917643		915378	856512	739801	791854		723787	781069			687995		720156		623773		
HLWFB01	HLWEH10	HLWEA90	HLWDZ31		HLWDD01	HLWDB48	HLWCP60	HLWCN93		HLWCN50	HLWCF83			HLWCF33		HLWCE47		HLWCB93		

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						136550, 602772	,								
						6q16.1-q16.3									•
	H0553: 1 and L0751:	H0553: 1 and L0748:	AR050: 49, AR054: 47, AR051: 27 H0553: 1	H0553: 1, L0766: 1 and L0747: 1.	L0747: 2 and H0553: 1.	H0553: 1 and L0748: 1.	H0553: 1 and L0759: 1.	H0553: 1 and L0754: 1.	H0553: 1 and L0748:	H0553: 1, L0665: 1, L0439: 1 and L0759: 1.	AR054: 15, AR050: 3,	AR051: 2	H0553: 1		
Ser-15 to Ser-23.	Arg-11 to Ser-17.	Arg-2 to Gly-7, Ile-28 to Ile-34, Ser-56 to Val-62.	Ser-1 to Glu-28.	Gly-11 to Trp-16, Cys-53 to Gly-78, Arg-99 to Asp-105, Ser-113 to Glu-119.	Lys-9 to Asn-22.		Leu-20 to Asp-38.	Glu-8 to Gln-18.	Pro-2 to Thr-7, Ala-13 to Arg-20.	Arg-12 to Gly-21.			Pro-34 to Arg-44,	Gly-51 to Trp-60,	F10-04 to A14-12.
5378	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129				
3 - 200	44 - 382	1 - 195	3 - 419	9 - 365	221 - 370	1 - 303	270 - 467	95 - 301	39 - 371	172 - 381	2 - 232				
2691	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442				
856519	917920	690515	887877	743406	784261	790072	747784	791355	890888	721530	196188				
	HLWBX42	HLWBW29	HLWBT09	HLWBS62	HLWBR85	нгмв091	HLWBJ65	нгмвн92	HLWBG78	HLWBF48	HLWBE74				

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L0747: 2, H0553: 1 and L0794: 1.	H0553: 1 and L0755:	H0553: 1 and L0749:	H0553: 1 and L0759:		H0553: 1 AR089: 4, AR061: 2 L0539: 1 and H0553:	H0553: 1 and L0745:	AR054: 55, AR050: 51, AR051: 48, AR089: 4, AR061: 2 H0553: 1
Pro-2 to Val-21, Asp-23 to Val-30, Gly-36 to Leu-41, Met-49 to Gly-55, Thr-72 to Lys-78,	Le-92 to Asp-97. Lys-6 to Leu-12, His-39 to Leu-57,	Lys-6 to Asn-13, Gly-31 to Gly-36, Gln-91 to Ser-99	Lys-11 to Arg-23, Cys-25 to Cys-31, Pro-33 to Tyr-38, Arg-46 to Ile-60.	Leu-17 to Gln-23, Gln-38 to Phe-44, Gln-65 to Gln-72, Thr-80 to Tvr-86.			
5130	5131	5132	5133	5379	5134	5136	5137
2 - 412	3 - 347	2 - 322	1 - 273	115 - 462	3 - 290	35 - 214	124 - 2
2443	2444	2445	2446	2692	2447	2449	2450
869611	720397	931387	785395	941397	625419 959139	751503	948928
HLWBC21	HLWBA80 720397	HLWBA27	HLWAW86		HLWAS09 HLWAR08	HLWAO67 751503	HLWAL31

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	20q12-q13					,	-										ı							
	H0553: 1 and L0439:	H0553: 1 and L0758:			H0553: 1 and L0439:		H0553: 1		H0553: 1, L0754: 1	and L0755: 1.	H0553: 1	H0553: 1 and L0663:		L0794: 2, L0766: 1,	L0665: 1 and H0689: 1.	•			L0777: 2, H0545: 1	and L0754: 1.		H0545: 1 and L0756:		H0545: 1 and L0599:
Arg-9 to Pro-15, Leu-114 to Val-120, Cys-147 to Cys-156.		Arg-1 to Ser-6,	Free-13 to Gin-24, Glu-31 to Arg-40.	Ser-48 to Asn-56,	Pro-21 to Gln-27.	Glu-53 to Ser-60.	His-1 to Ala-7,	Thr-34 to Leu-39.	Arg-1 to Arg-10,	Ile-66 to Glu-78.	Asn-42 to Lys-48.	Arg-2 to Phe-7,	Thr-68 to Asn-73.	Gly-11 to Ile-17,	Asn-24 to Ser-31,	Gln-47 to Ala-64,	Pro-66 to Ala=72,	Gly-77 to Gly-84.	Leu-2 to Arg-11,	Ser-25 to Gly-33,	Lys-54 to His-64.	Ser-48 to Lys-57.		Tyr-47 to Ser-58.
5380	5138	5139			5140		5141		5142		5143	5144		5145					5146			5147		5148
23 - 511	41 - 214	156 - 449		1	444 - 133	,	2 - 166		190 - 468		49 - 219	13 - 252		1 - 324					2 - 286			158 - 328	000	96 - 380
2693	2451	2452			2453		2454		2455		2456	2457		2458					2459			2460	2461	7401
971312	666281	919714			789030		734655		702317		699158	919725		965175					892899			772101	0.04464	704404
	HLWAJ18	HLWAF02			HLWAE09		HLWAD57		HLWAD33		HLWAD32	HLWAD02		HKZAH11				\neg	HJMBX19			HJMBS77	┰	UISSIMITE I

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					141750,	141800,	141800,	141800,	141800,	141850,	141850,	141850,	141850,	141850,	156850,	186580,	191092,	600140,	600273,	601313,	601785				
					16p13.3			,										,					,		
1.	H0545: 1 and L0747:	H0545: 1 and L0763:	H0545: 1 and L0646:	H0545: 1, L0748: 1 and L0740: 1.	H0545: 1 and L0794:	1.						•	•									L0588: 2, H0545: 1	and L0603: 1.		
	Thr-17 to Gly-22, Gln-69 to Glu-74.	Arg-5 to Thr-16.		Asn-74 to Pro-80.												,	ſ	•	-					Pro-49 to Ala-58,	Thr-70 to Lys-78.
	5149	5150	5151	5152	5153																	5154		-	
	156 - 557	218 - 436	47 - 199	373 - 122	187 - 501		,				•						`		-			1 - 234			
	2462	2463	2464	2465	2466																2770	7967			
	788834	919737	929114	828110	961623																0 1 2 0 0	/85410			
	нлмв090	HJMBN02	HJMBI93	HJMAV93	HJMAU07																7000 13 0111	HJMAQ80			

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																					1q12-1q21.2			
L0163: 2, H0545: 1 and L0754: 1.	H0545: 1 and L0740:	H0545: 1	AR061: 4, AR089: 2	H0046: 1 and L0758:	H0046: 1, L0439: 1,	L0740: 1 and L0591: 1.	H0046: 1 and L0731:	-	L0748: 2, H0046: 1	and L0766: 1.	H0046: 1	H0046: 1	H0046: 1	H0046: 1, L0748: 1	and L0581: 1.	H0046: 1 and L0439:	1.	H0046: 1	L0738: 1, H0046: 1,	L0527: 1 and L0599: 1.	L0747: 2 and H0046:	1.		
	Arg-1 to Ser-15, Ser-18 to Ser-33, Gin-47 to Arg-51	Gly-15 to Glu-21.					Pro-39 to Arg-44,	Ala-89 to Glu-103.				Asn-1 to Leu-13.		Ala-39 to Cys-46.	•			Val-19 to Leu-35.	Cys-11 to Pro-19, -	Asn-28 to Leu-35.	Val-20 to Gly-26,	Asn-62 to Arg-68.		
5155	5156	5157	5158		5159		5160		5161		5162	5163	5164	5165		2166		5167	5168		5169			
130 - 477	78 - 452	195 - 356	3 - 416		109 - 306		13 - 321		218 - 415		2 - 247	2 - 166	70 - 204	250 - 420		181 - 336		3 - 113	2 - 352		113 - 343	•		
2468	2469	2470	2471		2472		2473		2474		2475	2476	2477	2478		2479		2480	2481		2482			
627579	811222	742612	909762		752542		622199		921649		529467	529587	529589	742157		677490		533536	961038		929285			
HJMAQ14 657579	HJMAJ91	HJMAI62	HETLF29		HETJY68		HETID12		HETHO01		HETHB18	HETFF68	HETFF43	HETDU61		HETDA25		HETCO27	HETCH01	_	HETBM55			

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146760, 146790, 159001, 191315, 600897, 601412, 601652, 601863,	180020, 600320, 600883			,		,	,				113721, 247200,
	6q25	,				,				2pter-p25.1	17p13.3
	H0046: 1 and L0731: 1.	L0740: 3 and H0046:	H0046: 1 and L0777:	H0046: 1 and L0748:	L0747: 2, H0046: 1 and L0748: 1.	H0544: 1, L0775: 1, L0776: 1 and L0758: 1.	H0544: 1 and L0731:	H0544: 1	H0544: 1	H0544: 1	H0544: 1
	Glu-31 to Gly-37, Leu-42 to Gln-49.	Ser-73 to Lys-91.	Pro-17 to Ser-23.	Ser-22 to Lys-31, Thr-39 to Glu-47.	Ala-24 to Ser-31, Val-52 to Asp-61.	Ser-54 to Ala-59, Ser-64 to Phe-69, Arg-79 to Thr-87.	, ,	Thr-7 to Gly-14.			Ser-1 to Pro-23, Pro-35 to Asn-45,
	5170	5171	5172	5173	5174	5175	5176	5177	5178	5179	5180
	124 - 447	237 - 548	12 - 188	14 - 187	275 - 757	375 - 659	252 - 10	463 - 245	29 - 142	1 - 276	2 - 295
	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493
	965638	790499	68821	754155	660831	924849	773528	855578	739877	827915	427813
	HETBE61	HETAS91	HETAS81	HETAS62	HETAJ14	HEQCC01	неовт78	HEQBP18	HEQBI09	HEQBG85	HEQBG60

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600059,			·					,					
	H0544: 1	H0544: 1	H0544: 1 and L0599:	H0544: 1 and L0752:	H0544: 1, L0439: 1 and L0754: 1	L0439: 2 and H0544:	L0731: 5 and H0544:	L0747: 3 and H0544:	L0777: 4, H0150: 1 and L0757: 1.	H0150: 1 and L0747:	L0754: 2 and H0150:	H0150: 1 and L0743:	L0744: 2, L0731: 2 and
Cys-53 to Arg-70.	Asp-13 to Lys-20, Thr-43 to Ala-49.	Glu-18 to Pro-27, Asp-58 to Asn-65.	Phe-2 to Gly-7.				Trp-1 to Ser-10.	Lys-6 to Arg-11, Thr-22 to Gly-34.		Arg-10 to Ser-18, Leu-37 to Arg-48	G		
	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190	5191	5192	5193
	101 - 265	101 - 451	97 - 402	50 - 160	2 - 298	3 - 200	82 - 555	340 - 519	72 - 305	146 - 349	1 - 240	29 - 193	2 - 172
,	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506
	772860	760305	916321	739220	793250	729594	914044	792255	941270	952996	783362	825778	535627
	неове78	неове71	HEQAZ01	HEQAM59	НЕОАК94	HEQAF54	HEQAD73		HEPCB04	HEPBO92	HEPBO85	HEPAY26	HEPAX40

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	125852,	126452,	126452,	141900,	141900,	141900,	141900,	141900,	141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500,	600856,	601680,	602631,	602631	
	11p15.5																												
H0150: 1.	L0766: 3, L0776: 2,	H0150: 1, L0371: 1,	L0761: 1, L0764: 1,	L0662: 1, L0655: 1,	L0748: 1, L0754: 1,	L0749: 1 and L0779: 1.				-			,																L0748: 2, L0756: 2,
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	5194																												5195
	1 - 330														,														245 - 511
	2507																											0000	7208
	99299															•								-		-		20100	/0/535
	HEPAX16																												HEFAQ35

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L0777: 2, H0150: 1, L0789: 1, L0666: 1 and	L0758: 1.	H0150: 1 and L0777:	1.		H0150: 1 and L0780:	1.		H0150: 1 and L0763:	1.	H0150: 1 and L0743:	1.		H0150: 1, L0779: 1	and L0758: 1.			H0150: 1 and L0743:	1.	H0150: 1 and L0522:	H0550: 1 and L0646:	1.	H0550: 1 and L0745:	1	H0550: 1 and L0605:	110550: 1 2:: 41 0200	HUSSU: 1 and LU/66: 1.
		Pro-17 to Val-26,	His-34 to Lys-41,	Pro-54 to Phe-66.	Lys-15 to Leu-29,	Lys-45 to Glu-55,	Lys-82 to Lys-89.	Leu-42 to Gly-54.	-	His-1 to Ser-10,	Pro-22 to Gly-38,	Asn-55 to Ser-60.	Thr-1 to Arg-16,	Ala-45 to Gln-50,	Pro-63 to Ala-68,	Ala-80 to Asp-93.	Gly-38 to Asp-56.		Leu-15 to Lys-24.		,	Val-6 to Glu-11,	Phe-22 to Cys-29.		1 vin 18 to Cl., 22	Cln-60 to Ala-67.
		5196			5197			5198		5199			5200				5201		5202	5203		5204		5205	5005	
·		369 - 623			223 - 489			4 - 177		55 - 243			71 - 367	ł			174 - 353		3 - 107	2 - 304		95 - 352		217 - 372	3 - 230	0.52 - 5
		2509			2510			2511		2512			2513				2514		2515	2516		2517		2518	2519	21.57
		703336			932893			933039		657440			933091				509130		921389	922550		751233		915596	092260	
		HEPAP34			HEPAN05			HEPAK04		HEPAJ14			HEPAJ04				HEPAE58		HEPAE02	HEGBC03		HEGBB67		HEGBA01	HEGAX04	

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300067, 300067, 300121, 300121, 301201, 301835, 311850	,					152200, 167000, 180020,	600320, 600883, 602544		
Xq22.3	1	,				6q25.2-q27			,
H0550: 1, L0748: 1 and L0749: 1.	H0550: 1, L0745: 1 and L0731: 1.	L0731: 2, L0597: 2, H0550: 1, L0783: 1 and L0439: 1.	H0550: 1 and L0758: 1.	H0549: 1 and L0748:	AR051: 4, AR050: 2, AR054: 2 H0549: 1	H0549: 1, L0589: 1 and L0366: 1.		H0549: 1 and L0594: 1.	L0794: 6, L0806: 2, L0752: 2, H0549: 1, L0796: 1, L0766: 1,
	Lys-5 to Gly-11.	Pro-7 to Val-13.	Ser-7 to Cys-21, Ile-59 to Gly-64.	Asn-1 to Lys-14.	Arg-65 to Arg-72.	Asn-45 to Thr-50, Pro-52 to Arg-57.		Leu-32 to Leu-38.	
5207	5208	5209	5210	5211	5212	5213		5214	5215
1 - 273	153 - 359	344 - 511	2 - 196	222 - 383	2 - 328	222 - 398	;	249 - 413	101 - 784
2520	2521	2522	2523	2524	2525	2526		2527	2528
789940	731654	959216	918992	782706	912065	710655		738892	6477599
HEGAQ91	HEGAL55	HEGAJ08	HEGAC02	HEEAY84	HEEAX09	HEEAW40		HEEAP59	HEEAM25

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														120110,	121014, 601666,
				•	,				···		1			6q21 -	
L0380: 1, L0803: 1, L0804: 1, L0807: 1, L0789: 1, L0663: 1, L0755: 1, L0596: 1 and L0485: 1.	H0549: 1 and L0599:	H0549: 1 and L0748:	H0549: 1 and L0601: 1.		H0549: 1 and L0747: 1.	H0549: 1 and L0605:	AR050: 66, AR054:	64, AR051: 63, AR089:	13, AR061: 3 H0549: 1		H0549: 1 and L0756:	H0549: 1 and L0748:	H0369: 1 and L0740:	H0369: 1 and L0745:	1
		Val-21 to Gly-26, Leu-29 to Gly-38.	Pro-3 to Phe-9, Ser-17 to Ala-24,	Val-52 to Lys-62.	Ser-45 to Ser-50, Tyr-103 to Phe-110.	Glu-61 to Val-77, Phe-81 to Ser-88						Val-15 to Ala-23, Pro-30 to Ser-35.	Val-22 to Gly-29.	Lys-80 to Lys-86.	
	5216	5217	5218		5219	5220	5221			5381	5222	5223	5224	5225	
	114 - 344	16 - 213_	219 - 404	,	15 - 344	1 - 423	266 - 36			429 - 295	1 - 195	128 - 310	63 - 182	53 - 364	
	2529	2530	2531		2532	2533	2534			2694	2535	2536	2537	2538	
	794257	769950	734488		661827	930810	724929			887048	470886	710668	684734	911255	
·	НЕЕАН94	HEEAH76	HEEAH57		HEEAH16	HEEAG51	HEEAG12				HEEAD13	HEEAB40	HEAAX26	HEAAU20	

602772	,												-									
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		Gly-1 to Ser-6.		Thr-3 to Ala-10, Glu-30 to Arg-38.	Leu-23 to His-28.		Arg-43 to Ser-49,	Glu-55 to Ser-61,	Pro-70 to Arg-75,	Cys-91 to Gly-103.	Arg-45 to Gly-52.	Glu-24 to Tyr-31.		1	Pro-1 to Arg-14.			Ala-43 to Glu-58,	1	Ala-111 to Ala-119.	Thr-29 to Arg-43.	
	5226	5227	5228	5229	5230	5231	5382				5383	5232		5233	5234		5235				5236	5237
	20 - 220	353 - 535	235 - 336	321 - 563	2 - 136	605 - 396	1539 - 1913				316 - 504	598 - 792		438 - 740	2 - 142		158 - 628				185 - 313	79 - 240
	2539	2540	2541	2542	2543	2544	2695				2696	2545		2546	2547		2548				2549	2550
	973284	883939	842032	950736	770200	896892	904209				906483	714041	.,,,,,	844361	628679		933473				951645	951655
	HEAAR47	HEAAR21	HEAAN43	HEAAM71	HEAAL76	HEAAG84						HEAAG42	774 4 4711	HEAAB66	HCORB05	3 33 34 00 00 1	HCOPM06				HCOPI07	HCOPF07

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H0670: 1, L0731: 1	and L0759: 1.	L0517: 1, L0438: 1,	H0670: 1 and L0439: 1.	L0517: 2, L0756: 2,	L0803: 1, L0776: 1,	L0809: 1, L0663: 1,	H0670: 1, L0755: 1 and	L0759: 1.	AR089: 1, AR061: 1	H0670: 1			•				•			H0484: 1 and L0743:		•		H0484: 1, L0617: 1,	L0772: 1, L0751: 1 and	L0752: 1.	AR061: 1, AR089: 1	H0484: 1 and L0589:
Pro-13 to Ser-19,	Asp-27 to Thr-35.	Asn-7 to Val-13.		Asp-5 to Ala-11,	Trp-24 to Phe-31,	Arg-44 to Trp-50.			Gln-19 to Asp-38,	Pro-46 to Thr-55,	Leu-96 to Gly-104,	Ala-114 to Ala-119,	Gln-125 to Trp-131,	Pro-133 to Pro-141,	Phe-144 to Glu-150,	Glu-180 to Val-185,	Glu-192 to Glu-197,	Glu-254 to Leu-262,	Met-272 to Ser-280.	Cys-6 to Lys-21,	Ser-53 to Ile-65,	Asn-68 to Gln-80,	Arg-106 to Ala-114.	Arg-1 to Lys-12,	Gly-57 to Gly-62,	Pro-74 to Asp-80.	Lys-1 to Ser-13.	
5238		5239		5240					5241											5242				5243			5244	٠
221 - 493	+	148 - 306		474 - 217	,				1 - 840						,					13 - 357				1 - 741			122 - 325	
2551		2552		2553					2554				•							2555				2556			2557	
951693		917577		971637					925952					-						908495				069256			862478	
HCOOF07		HCONP02	2000	HCONM33					HCOMIM05											HCHQA48				HCHOX63			HCHNW48	

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						• · ·		,			ı												_				
H0484: 1 and L0749:	L0757: 2 and H0484:	·				H0484: 1 and L0439:	· •			AR051: 32, AR054:	29, AR050: 28	H0484: 1	H0484: 1 and L0792:	1		,		L0749: 3 and H0483:	1.	H0483: 1 and L0764:	L0748: 3, L0596: 2,	H0483: 1, L0439: 1 and	L0749: 1.	H0483: 1	H0483: 1		
	Leu-8 to Val-20,	Arg-25 to Arg-35,	Ala-38 to Trp-46,	Phe-69 to Tyr-75,	Ser-96 to Trp-104.	Ala-1 to Gly-8,	Arg-16 to Ser-21,	Ser-35 to Pro-45,	Ala-61 to Gly-67.				Lys-67 to Ser-79,	Ser-89 to Thr-109,	Asn-116 to Ser-129,	Glu-140 to Lys-147,	Ser-161 to Lys-172.	Gly-1 to Trp-6,	Gly-74 to Trp-80.	+	Phe-32 to Ala-37.				Gly-4 to Lys-10,	Gln-36 to Glu-41,	Arg-61 to Arg-76.
5245	5246					5247				5248			5249					5250		5251	5252			5253	5254		
2 - 349	97 - 408					3 - 218				3 - 248			165 - 25					248 - 499		251 - 502	214 - 462			11 - 193	11 - 241		
2558	2559					2560			,	2561			2562					2563		2564	2565			2566	2567		
850340	586996		_			786765				800129			932298					952957		869084	686431			773428	682308		
	HCHMW18		•			HCHIMJ89	,			HCHMI96			HCHMI15					HCHCI07		нснсн68	HCHCG28			HCHCE78	нснво27		

												1																
107741,	113900,	122720,	122720,	126340,	126391,	160900,	164731,	173850,	207750,	248600,	258501				,													
19q13.2											,	ı										<u> </u>					1	
H0483: 1						,						H0483: 1		H0483: 1	H0483: 1	H0483: 1	L0752: 1 and S0398: 1.	L0777: 1, L0758: 1,	L0697: 1 and S0398: 1.	S0398: 1	L0439: 1 and S0398: 1.		S0398: 1	S0398: 1	S0398: 1	S0398: 1	S0398: 1	L0587: 1 and S0398: 1.
Gly-1 to Ser-13.												Gly-4 to Lys-10,	Gln-36 to Glu-41.	Lys-1 to Lys-21.		Ser-26 to Thr-44.	Gly-12 to Cys-27.	Glu-8 to Met-22,	Pro-104 to Pro-109.	Glu-12 to Leu-20.	Gln-9 to Val-17,	Phe-38 to Glu-45.					Gly-12 to His-19.	Gly-13 to Asn-22.
5255												5256		5257	5258	5259	5260	5261		5262	5263		5264	5265	5266	5267	5268	5269
1 - 177							١				ŀ	13 - 153		2 - 148	1 - 75	3 - 212	86 - 286	147 - 473		160 - 330	47 - 283		116 - 271	2 - 241	28 - 183	185 - 289	128 - 244	2 - 202
2568												2569		2570	2571	2572	2573	2574		2575	2576		2577	2578	2579	2580	2581	2582
625420												681404		743411	487985	726081	796196	863374		785134	677627		675490	672815	934663	789551	713300	711996
HCHBN09								,				HCHBM26		HCHAI62	HCHAH04	HCHAG52	HCDMF96	HCDME32		HCDMC86	HCDMC25		HCDMC23	HCDMC22	HCDMC06	HCDMB91	HCDMB42	HCDMB41

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						1			,														-	
S0398: 1	AR050: 93, AR054:	62, AR051: 57 S0398: 1	L0753: 1 and S0398: 1.	S0398: 1		L0438: 1, L0439: 1 and	H0661: 1, L0805: 1	and L0776: 1.		H0661: 1 and L0740:	1.	H0661: 1 and L0603:	H0661: 1, L0664: 1,	L0754: 1 and L0749: 1.			S0190: 1	L0771: 2 and S0190: 1.	S0190: 1					L0741: 3 and S0188: 1.
	Pro-7 to Gly-24.		Gly-38 to Gly-51.	Cys-20 to His-27,	Glu-35 to Lys-54.		Pro-12 to Thr-21,	Gly-35 to Thr-41,	Thr-53 to Gln-75, Ser-92 to Glv-98.			Glu-22 to Glu-49.	Ala-1 to Asn-9,	Thr-24 to Asn-29,	Gly-43 to Arg-53,	Arg-106 to Arg-111.	Gln-7 to Lys-14.		Val-8 to Leu-14,	Pro-22 to Arg-31,	Thr-62 to Lys-68,	Arg-76 to Cys-82,	11p-82 to rils-91.	
5270	5271		5272	5273	į	5274	5275			5276		5277	5278				5279	5280	5281		·		0000	2787
23 - 148	418 - 627		115 - 267	88 - 252		3-92	3 - 401		1	230 - 358		371 - 138	207 - 653				2 - 79	40 - 291	59 - 427				777	7 - 244
2583	2584		2585	2586		2587	2588			2589		2590	2591				2592	2593	2594		·		2020	2667
682389	816896		958542	923316		669201	922388			921788		961718	965394				926407	920249	699335				024470	/044/9
HCDMB27	HCDMB12		HCDMB08	HCDMB03		HCDMA20	HCBND03			HCBMZ07	- 1	HCBMY10	HCBMG11				HBZSK04	HBZSG02	HBZSD32				UD7 A 172	\neg

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				,										,								
S0188: 1 and L0747: 1.	S0188: 1 and L0605: 1.	S0188: 1	S0188: 1 and L0587: 1.	L0774: 3, L0775: 1,	L0809: 1, S0188: 1 and	L0758: 1.	H0188: 1 and L0751:	L0774: 2, L0741: 2,	L0439: 2, L0411: 1 and	110100. 1.	H0188: 1, L0663: 1	H0188: 1 and L0526:	• •	H0188: 1, L0769: 1 and L0753: 1.	H0188: 1 and L0748:	H0188-1	•	L0439: 3 and H0188:	H0188: 1 and L0748:		H0188: 1	H0188: 1
Gly-38 to Ser-44.			Lys-26 to His-31.	Pro-1 to Gln-15,	Gln-38 to Asn-45,	Pro-57 to Thr-65.	Arg-54 to Arg-60.	Glu-17 to Tyr-22.				Trp-18 to Gly-23,	3CI-23 to INICI-31.		ı						Asp-30 to Trp-36, Ser-39 to Trp-44.	Arg-10 to Glu-32.
5283	5284	5285	5286	5287			5288	5289			5290	5291		5292	5293	5294	5384	5295	5296		5297	5298
198 - 443	545 - 808	3 - 203	240 - 362	160 - 414			222 - 473	3 - 155			245 - 409	63 - 215	,	2 - 298	50 - 256	143 - 3	1 - 186	372 - 79	87 - 236		3 - 152	1 - 318
2596	2597	2598	2599	2600			2601	2602			2603	2604		2605	2606	2607	2697	2608	2609		2610	2611
681879	847621	847620	660348	959560			960288	430360			703113	907015		960664	712676	906009	847732	868924	764716		286797	525831
HBZAJ26	HBZAI39	HBZAI14	HBZAB15	HBZAB08			HBNBQ50	HBNBO30			HBNBL29	HBNBJ29		HBNBJ06	HBNBB41	HBNBB27		HBNBB09	HBNAW73		HBNAC74	HBNAC71

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							- 1		,	1		ŀ															
H0188: 1	H0188: 1 and L0591:	1.	H0188: 1	H0188: 1	H0188: 1		H0188: 1	H0188: 1	AR050: 173, AR051:	169, AR054: 143,	AR089: 46, AR061: 9	H0617: 1	H0617: 1, L0766: 1	and L0788: 1.	AR054: 7, AR051: 2,	AR050: 1	H0617: 1, L0769: 1,	L0637: 1 and L0789: 1.	H0617: 1, L0767: 1,	L0775: 1 and L0779: 1.	L0779: 2, L0752: 2,	H0617: 1 and L0794: 1.	H0617: 1, L0774: 1,	L0747: 1 and L0752: 1.	H0617: 1 and L0750:	1.	L0758: 2 and H0617: 1.
					Leu-2 to Gln-11,	Lys-35 to Lys-48.	-	Pro-24 to Ala-37.	His-8 to Gly-18,	Pro-89 to Gly-96,	Lys-126 to Trp-131,	Glu-133 to Gly-141.	Gly-14 to Val-21.		Pro-16 to Gly-38,	Arg-50 to Arg-58,	Asp-65 to Asn-81.		Thr-10 to Gly-16.		Ser-73 to Lys-78,	Pro-93 to Gly-100.			Pro-46 to Gly-55,	Arg-79 to Cys-89.	Ser-28 to Trp-36.
5299	2300	, 0,00	5301	5302	5303		5304	2305	9085				2307		2308				5309		5310		5311		5312		5313
150 - 308	1 - 120	-	1-111	34 - 183	3 - 146		- 92 - 8	2 - 199	14 - 556		1		71 - 325		2 - 448				1 - 570		55 - 354		28 - 507		3 - 272		104 - 307
2612	2613	7,000	2014	2615	2616	ĺ	2617	2618	2619				2620		2621				2622		2623		2624		2625		2626
721983	714263	073703	220249	525832	525834		525833	921187	903653				965121		886650				848179		926973		954374		754392		773043
HBNAC48	HBNAC42	LTDAIA C22	HBNAC32	HBNAC28	HBNAC25		HBNAC09	HBNAC02	HBGTT76				HBGTE11		HBGQS88		,		HBGNL85		HBGND04		HBGMT82		HBGMS69		HBGMO78

								<u>.</u>			•									,		_		•	
						,			102200,	106100,	131100.	131100,	131100,	133780,	147050,	153700,	161015,	164009,	168461,	168461,	168461,	180721,	180840,	191181,	193235,
			4 · 4			,		•	11q13														,		
AR050: 297, AR051: 237, AR054: 211 H0617: 1	L0748: 2, H0606: 1 and L0593: 1.	H0606: 1 and L0777: 1.		L0439: 6, L0776: 2,	L0777: 2, H0181: 1,	L0762: 1 and L0809: 1.	AR089: 0, AR061: 0	H0181: 1	AR089: 33, AR061: 29 11q13	H0181: 1							1	-							
Lys-3 to Leu-13, Pro-70 to Ser-78.		Gly-18 to Gly-24, Gly-31 to Ser-38,	His-57 to Asn-62.				Leu-92 to Phe-98.					1					'	•							
5314	5315	5316		5317			5318		5319																
37 - 363	358 - 140	267 - 473	-	3 - 374			2 - 355		2 - 277																
2627	2628	2629		2630			2631		2632																
880276	914032	727748		702854	_		861602		832888																
HBGMG81	HBGFS88	HBGFG53		HBGDH33			HBGDF39		HBGDA74																

					_	_		_															•		
209901,	259700,	600045,	600319,	600528,	601884							,		,											
					U0191.1	H0181: 1	H0181: 1		H0181: 1	H0181: 1	H0181: 1 and L0741:		AR061: 1, AR089: 1	H0663: 1 and L0783:		L0779: 3, H0663: 1,	.0757: 1 and L0758: 1.	H0663: 1 and L0766:	•	H0664: 1 and L0758:		L0754: 2, H0664: 1	and L0748: 1.	H0294: 1 and L0777:	
					I vic. 8 to A12.14 H		Leu-8 to Gly-19, H(٠.	-	H	Ser-11 to Trp-17, H(Pro-19 to Thr-28.	Arg-1 to Arg-8, AR		1.	Ala-26 to Val-32. L0	L07		1	Glu-14 to Ala-30, H(Ile-46 to Lys-53.	Arg-5 to Ser-15. L0	and		Lys-28 to Asp-36, 1.
					5320	5321	5322		5323	5324	5325		5326			5327		5328		5329		5330		5331	
,					1 . 57	2-157	120 - 257		1 - 150	1-69	1 - 342	-	2 - 403			135 - 356		194 - 514		349 - 507		3 - 137		31 - 402	
					2633	2634	2635		2636	2637	2638		2639			2640		2641		2642		2643	-	2644	
					802090	588263	522424		525837	971466	773930		932817			927520		922493		917981		921898		764851	
					HRGRG69	HBGBG67	HBGBG52		HBGBG38	HBGBE12	HBGBB78		HBCPV80			HBCPO75		HBCPK03		HBCJP02		HBCJG07		HAUCC58	

					Thr-64 to Leu-74,			
	<u> </u>		'		Cys-99 to Arg-107,		•••	
					Lys-117 to Arg-124.		+	
AW51	HAUAW51 577959	2645	119 - 349	5332	Ser-24 to Trp-30,	H0294: 1 and L0748:		
			!		Glu-38 to Arg-50.	1.	-	,
HAUAS89 518847	518847	2646	25 - 132	5333		H0294: 1		
HAUAQ28 685374	685374	2647	320 - 427	5334		H0294: 1 and L0608:		
						1.	_	
HAQCF25 678235	678235	2648	1 - 303	5335		L0794: 2, L0599: 2,		
						H0295: 1, L0763: 1,		
						L0800: 1 and L0515: 1.		
HAQCD07 958959	656856	2649	198 - 425	5336	Arg-25 to Ser-50.	H0295: 1 and L0780:		
				į		1,		
HACMR08 955638	955638	2650	2 - 280	5337	Leu-30 to Lys-38,	L0809: 2, H0685: 1,		
					Trp-49 to Ala-58,	L0776: 1 and L0780: 1.	-	
			•		Gly-75 to Pro-80.			

[066] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

- The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the reproductive system associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [068] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [069] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In some embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on

the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[070] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly expressed in reproductive

system tissues, including normal and diseased reproductive system tissues (See Table 1A, column 7 and Table 4).

- [071] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.
- [072] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.
- [073] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification

numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID	SEQ ID	CONTIG	BAC ID: A	SEQ ID	EXON
NO:Z	NO:X	ID:	+	NO:B	From-To
HAOSH55	14	952380	AL353194	5385	1-964
					1250-1399
					2650-2905
	· '				3588-3668
		'			3971-4987
	• • • • • • • • • • • • • • • • • • • •				5854-5963
	f				7336-7775
				•	7870-8256
					8419-8895
					9000-9339
HAOSH55	14	952380	AL353194	5386	1-90
HAQAK73	15	764671	AC023906	5387	1-739
HAQAK73	15	764671	AC023906	5388	1-845
HAQBS37	20	847519	AP002519	5389	1-168
				ļ	683-777
					1538-3043
					3578-4180
					5564-5793
		1			6266-6409
		1		,	6412-6738
	<u> </u>		<u> </u>	'	7035-7451
HAUBD69	21	529711	AL359674	5390	1-138
HAUBD69	21	529711	AL359674	5391	1-380
HAUBU10	22	968339	AC027538	5392	1-463
HAUBU10	22	968339	AC010770	5393	1-463
HAUBU10	22	968339	AC027538	5394	1-288
HAUBU10	22	968339	AC010770	5395	1-288
HBCQS93	27	930682	AL109945	5396	1-310
					1220-1839
HBCQS93	27	930682	AC022307	5397	1-310
				ļ	1220-1839
					2206-2683
					2691-2788
					3337-3381
HBCQS93	27	930682	AL109945	5398	1-131
HBGBF56	29	957870	AL031963	5399	1-249
HBGBF56	29	957870	AL133351	5400	1-249
HBGBF56	29	957870	AL031963	5401	1-249
HBGBF56	29	957870	AL031963	5402	1-429
HBGBF56	29	957870	AL133351	5403	1-580
					1364-1792
					2134-2229
	<u>'</u>				3072-3565

					3973-4080
HBGBF56	29	957870	AL031963	5404	1-349
HBGBF56	29	957870	AL133351	5405	1-349
HBGBF56	29	957870	AL031963	5406	1-349
HBGBG42	30	922396	AL096773	5407	1-518
,		}		1	1341-1514
					3365-3956
					4169-4282
		•		1	4430-4892
					6254-7763
HBGBG42	30	922396	AL096773	5408	1-114
HBGBG42	30	922396	AL096773	5409	1-3033
HBGBH43	31	524532	AP000757	5410	1-726
HBGBH43	31	524532	AP000683	5411	1-726
HBGBH43	31	524532	AP000757	5412	1-249
				<u>'</u>	299-451
				•	651-926
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HODCP69	369	507249	AC019255	6164	1-333
HODCR43	370	529332	AC023162	6165	1-431

HODCR43 370 529332 AC000380 6167 1-3 HODCT07 371 954149 AC016510 6168 1-2 HODCU01 372 917270 AL355822 6169 1-15 HODCU01 372 917270 AL355822 6170 1-1 HODCU02 373 920698 AC018633 6172 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6176 1-4 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC09246 6176 1-4 HODCU62 374 524314 AC09246 6178 1-4 HODCU62 374 524314 AC09246 6178 1-4 HODCU62 374 524314 AC09246 6178 1-4 HODCU62 374 524314 AC09246 6178 1-4 HODCU62 374 524314 AC09246 6178 1-4 HODCU03 375 973487 AC021721 6179 1-6 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC018822 6182 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC024836 6184 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024838 6185 1-3 HODDD20 379 933726 AC024838 6185 1-3 HODDD20 379 933726 AC024836 6187 1-20 HODDD21 380 529390 AL357497 6189 1-7 HODDE28 381 529169 AC008063 6191 1-4 HODDE28 381 529169 AC008063 6191 1-4 HODDF51 382 937759 AC012362 6194 1-46 HODDF51 382 937759 AC012362 6194 1-46 HODDF51 383 9375437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11	TIOD OD 42	1270	1.50000	1	1	
HODCTO7 371 954149 AC016510 6168 1-2	HODCR43	370	529332	AC000380	6166	1-430
HODCU01 372 917270 AL355822 6169 1-15 HODCU01 372 917270 AL355822 6170 1-1 HODCU01 372 917270 AL355822 6170 1-1 HODCU02 373 920698 AC018633 6172 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6174 1-1 HODCU02 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6176 1-4 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC09246 6178 1-4 HODCU02 375 973487 AC021721 6179 1-6 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODDD20 379 933726 AC024383 6183 1-3 HODDD20 379 933726 AC024436 6184 1-3 HODDD20 379 933726 AC024438 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024488 6185 1-3 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD21 380 529390 AL357497 6189 1-7 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDF51 382 937759 AC012362 6194 1-46 HODDF51 383 9375437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-14 HODDN59 389 975437 AL160155 6201			~			1-379
HODCU01 372 917270 AL355822 6170 1-1 HODCU01 372 917270 AL355822 6171 1-1 HODCU02 373 920698 AC018633 6172 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6174 1-1 HODCU62 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6176 1-4 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC078826 6177 1-1 HODCU62 374 524314 AC09246 6178 1-4 HODCU99 375 973487 AC021721 6179 1-6 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC018822 6182 1-3 HODDU20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC024838 6185 1-3 HODDD20 379 933726 AC024838 6186 1-20 HODDD20 379 933726 AC024838 6186 1-20 HODDD20 379 933726 AC024838 6186 1-20 HODDD20 379 933726 AC024838 6186 1-20 HODDD20 379 933726 AC024838 6186 1-20 HODDD20 379 933726 AC024838 6186 1-20 HODDD21 380 529390 AL357497 6189 1-7 HODDE28 381 529169 AC008063 6190 1-36 HODDF51 382 937759 AC012362 6193 1-25 HODDD53 383 806204 AC068404 6195 1-65 HODDS5 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 62						1-293
HODCU01 372 917270 AL355822 6171 1-					6169	1-1563
HODCU02 373 920698 AC018633 6172 1-6 HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6174 1-1; HODCU02 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6175 1-4 HODCU62 374 524314 AC078826 6177 1-16 HODCU62 374 524314 AC09246 6178 1-46 HODCU62 374 524314 AC09246 6178 1-46 HODCU62 374 524314 AC09246 6178 1-46 HODCW17 375 973487 AC021721 6179 1-66 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC018822 6182 1-3 HODDD20 379 933726 AC023483 6183 1-31 HODDD20 379 933726 AC024636 6184 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC024898 6185 1-26 HODDD20 379 933726 AC024898 6186 1-26 HODDD20 379 933726 AC024898 6186 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD21 380 529390 AL357497 6189 1-7 2356-2467 AC024698				AL355822	6170	1-132
HODCU02 373 920698 AC018633 6173 1-6 HODCU02 373 920698 AC018633 6174 1-198600 1-1986000 1-1986000 1-1986000 1-1986000 1-1986000 1-19860000 1-19860000 1-1986000000000000000000000000000000000000	***				6171	1-83
HODCU02 373 920698 AC018633 6174 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				AC018633	6172	1-627
HODCU62 374 524314 AC078826 6175 1-44 HODCU62 374 524314 AC009246 6176 1-44 HODCU62 374 524314 AC078826 6177 1-16 HODCU62 374 524314 AC009246 6178 1-46 HODCU62 374 524314 AC009246 6178 1-46 HODCV09 375 973487 AC021721 6179 1-66 HODCW17 376 960051 AC023483 6180 1-37 HODCW17 376 960051 AC016092 6181 1-37 HODCW17 376 960051 AC016092 6181 1-37 HODCW17 376 960051 AC018822 6182 1-37 HODDCW17 376 960051 AC018822 6182 1-37 HODDD20 379 933726 AC023483 6183 1-31 HODDD20 379 933726 AC024636 6184 1-31 HODDD20 379 933726 AC024636 6184 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD21 380 529390 AL357497 6189 1-7 2356-245 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-16 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 383 806204 AC068404 6196 1-40 HODDS57 383 806204 AC068404 6196 1-40 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6200 1-54 HODDN59 389 975437 AL160155 6200 1-54 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11			920698	AC018633	6173	1-648
HODCU62 374 524314 AC009246 6176 1-44 HODCU62 374 524314 AC078826 6177 1-16 HODCU62 374 524314 AC078826 6177 1-16 HODCU62 374 524314 AC009246 6178 1-46 HODCW09 375 973487 AC021721 6179 1-66 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC018822 6182 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024898 6185 1-3 HODDD20 379 933726 AC024898 6185 1-3 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD21 380 529390 AL357497 6189 1-7 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDD57 383 806204 AC068404 6195 1-65 HODDD57 383 806204 AC068404 6196 1-40 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437			920698	AC018633	6174	1-190
HODCU62 374			524314	AC078826	6175	1-462
HODCU62 374 524314 AC078826 6177 1-10 HODCU62 374 524314 AC009246 6178 1-40 HODCV09 375 973487 AC021721 6179 1-60 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC018822 6182 1-3 HODDW17 376 960051 AC018822 6182 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024898 6185 1-3 HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD21 380 529390 AL357497 6189 1-7 2356-248			524314	AC009246	6176	1-463
HODCU62 374	HODCU62	374	524314	AC078826	6177	1-106
HODCV09 375 973487 AC021721 6179 1-66 HODCW17 376 960051 AC023483 6180 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODCW17 376 960051 AC016092 6181 1-3 HODDW17 376 960051 AC018822 6182 1-3 HODDD20 379 933726 AC023483 6183 1-3 HODDD20 379 933726 AC024636 6184 1-3 HODDD20 379 933726 AC024898 6185 1-3 HODDD20 379 933726 AC024898 6185 1-3 HODDD20 379 933726 AC024898 6185 1-2 HODDD20 379 933726 AC024636 6187 1-2 HODDD20 379 933726 AC024636 6187 1-2 HODDD20 379 933726 AC024636 6187 1-2 HODDD20 379 933726 AC024898 6188 1-2 HODDD20 379 933726 AC024636 6190 1-3 HODDD20 379 933726 AC024898 6188 1-2 HODDD20 379 933726 AC024636 6190 1-3 HODDD20 379 933726 AC024636 6193 1-7 HODDD20 380 529390 AL357497 6189 1-7 HODDE28 381 529169 AC008063 6190 1-3 HODDE28 381 529169 AC008063 6191 1-4 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDS59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961	HODCU62	374	524314	AC009246	6178	1-405
HODCW17 376 960051 AC023483 6180 1-37 HODCW17 376 960051 AC016092 6181 1-37 HODCW17 376 960051 AC018822 6182 1-37 HODDD20 379 933726 AC023483 6183 1-31 HODDD20 379 933726 AC024636 6184 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024698 6188 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD20 379 933726 AC024898 6189 1-7 2356-245 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL136961 6198 1-63 HODDN59 389 975437 AL136961 6198 1-63 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-54 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-11 HODDN59 389 975437 AL136961 6200 1-	HODCV09	375	973487	AC021721	6179	1-603
HODCW17 376	HODCW17	376	960051	AC023483	6180	1-375
HODCW17 376	HODCW17	376	960051	AC016092	6181	1-375
HODDD20 379 933726 AC023483 6183 1-31 HODDD20 379 933726 AC024636 6184 1-31 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 2356-249 2576-267 2356-249 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46	HODCW17	376	960051	AC018822	6182	1-375
HODDD20 379 933726 AC024636 6184 1-33 HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 2356-249 2576-267 2356-249 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE3 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODD57 383 806204 AC068404 6195 1-65	HODDD20	379	933726	AC023483		1-319
HODDD20 379 933726 AC024898 6185 1-31 HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 2356-249 2576-267 2356-249 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63	HODDD20	379	933726	AC024636		1-319
HODDD20 379 933726 AC023483 6186 1-26 HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 2356-249 2576-267 2356-249 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE3 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54	HODDD20	379	933726	AC024898	6185	1-319
HODDD20 379 933726 AC024636 6187 1-26 HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 LODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDG57 383 806204 AC068404 6196 1-40 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6201 <t< td=""><td>HODDD20</td><td>379</td><td>933726</td><td>AC023483</td><td></td><td>1-261</td></t<>	HODDD20	379	933726	AC023483		1-261
HODDD20 379 933726 AC024898 6188 1-26 HODDD41 380 529390 AL357497 6189 1-7 2356-249 2576-267 2356-249 2576-267 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL160155 6201 1-54	HODDD20	379	933726	AC024636		1-261
HODDD41 380 529390 AL357497 6189 1-7 HODDE28 381 529169 AC008063 6190 1-36 HODDE28 381 529169 AC008063 6191 1-41 HODDE28 381 529169 AC008063 6192 1-10 HODDF51 382 937759 AC012362 6193 1-25 HODDF51 382 937759 AC012362 6194 1-46 HODDG57 383 806204 AC068404 6195 1-65 HODDN59 389 975437 AL160155 6197 1-63 HODDN59 389 975437 AL136961 6198 1-63 HODDN59 389 975437 AL160155 6199 1-54 HODDN59 389 975437 AL160155 6201 1-11 HODDN59 389 975437 AL136961 6202 1-11 HODDN59 389 975437 AL136961 6202 <t< td=""><td>HODDD20</td><td>379</td><td>933726</td><td></td><td></td><td>1-261</td></t<>	HODDD20	379	933726			1-261
HODDE28 381 529169 AC008063 6190 1-36	HODDD41	380	529390			1-70
HODDE28 381 529169 AC008063 6190 1-36	'	Ì				2356-2495
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2311-265	HODDN93	390				1-190
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HODDQ02	391	920962	AC016138	6208	1-403
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HODDR13	393	529640	AC021663	6211	1-403
HODDR13	393	529640	AC021663		1-271
HODDS67	394	567197	AC021003	6212 .	1-297
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HODDS67	394	567197	AC009066	6214	1-106
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HODDS67	394	567197	AC009066	6216	1-538
HODDS67	394	567197	AC007225	6217	1-938
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HODDU70	395	529290	AC067917	6218	1-348
HODDU70	395	529290	AC002075	6219	1-348
HODDU70	395	529290	AC067917	6220	1-128
HODDU70	395	529290	AC002075	6221	1-128
HODEA90	397	782242	AL355491	6222	1-899
HODEA90	397	782242	AL356112	6223	1-899
HODEA90	397	782242	AL355491	6224	1-416
HODEA90	397	782242	AL355491	6225	1-301
HODEA90	397	782242	AL356112	6226	1-288
HODEROA	397	782242	AL356112	6227	1-416
HODEB04	398	927022	AL161737	6228	1-785
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HODGH91	469	968794	AL033547	6377	1-567
HODGH91	469	968794	AL033547	6378	1-429
HODGJ67	471	974297	AL356804	6379	1-414
HODGL54	472	859303	AC023785	6380	1-300
					990-1082
					1263-1944
					3930-3960
					4456-4565
					4991-5162
,	,				7643-7924
					8196-8928

					10082-10445
HODGL54	472	859303	AC023785	6381	1-484
7707007.51					1470-1673
HODGL54	472	859303	AC023785	6382	1-576
HODGM46	473	974051	AC002351	6383	1-1278
HODGM46	473	074051	4.0000000	(004	2155-2236
HODGW40	4/3	974051	AC002369	6384	1-586
					2559-2651
					3329-3426 3756-5088
HODGM46	473	974051	AC002351	6385	1-115
HODGM46	473	974051	AC002369	6386	1-113
HODGO46	474	883087	AC037489	6387	1-346
		1	110007.105	050,	1670-2284
			1.		2466-2854
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					6053-6599
					7153-7508
					8502-8724
					9716-10001
HODGOAG	47.4	000007	1 0010151		11982-12304
HODGO46	474	883087	AC019171	6388	1-669
	1		+		797-1185
				,	2733-2844 4386-4932
					5136-5165
HODGO46	474	883087	AC037489	6389	1-1408
HODGO46	474	883087	AC037489	6390	1-175
HODGO46	474	883087	AC019171	6391	1-356
HODGO46	474	883087	AC019171	6392	1-345
HODGP37	475	974293	AC023592	6393	1-570
HODGP37	475	974293	AC069441	6394	1-570
HODGP83	476	889967	AC013723	6395	1-110
			1		1542-2027
			;		3382-3689
HODODO	1776	200065	1.00000		5800-5966
HODGP83	476	889967	AC009973	6396	1-74
•					1507-2339
					3336-3657
HODGP83	476	889967	AC013723	6397	5766-5932
HODGP83	476	889967	AC013723	6398	1-499
HODGP83	476	889967	AC009973	6399	1-314
HODGP83	476	889967	AC009973	6400	1-499
HODGQ08	478	958237	AC026000	6401	1-509
HODGQ08	478	958237	AC025510	6402	1-509
HODGQ32	480	974294	AC024497	6403	1-705

HODGQ32	480	974294	AC024497	6404	1-3866
HODGQ92	481	894368	AP000751	6405	1-96
			•		1450-1596
			<u> </u>		2035-2116
HODGQ92	481	894368	AP000751	6406	1-369
HODGT62	482	974052	AC011008	6407	1-731
HODGT62	482	974052	AC044783	6408	1-731
HODGW08	483	958277	AL121966	6409	1-562
HODGW08	483	958277	AC025054	6410	1-562
HODGW08	483	958277	AC009425	6411	1-562
HODGW08	483	958277	AL121966	6412	1-485
HODGW08	483	958277	AC025054	6413	1-409
HODGW08	483	958277	AL121966	6414	1-409
HODGW08	483	958277	AC025054	6415	1-485
HODGW08	483	958277	AC009425	6416	1-485
HODGW08	483	958277	AC009425	6417	1-409
HODGZ06	486	933783	AC007685	6418	1-452
					497-619
			-		1248-2116
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				1	2610-2725
					3566-3716
			1		4422-4552
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			,		12653-12705
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HODOZOG	106	022702	1.5005605	I	17808-17904
HODGZ06	486	933783	AC007685	6419	1-160
HODGZ06	486	933783	AC007685	6420	1-2806 2896-4507
HODGZ10	487	961977	AC064861	6421	1-85
	•		1		1146-1687
HODGZ10	487	961977	AC073838	6422	1-86
			+		1147-1688
HODGZ10	487	961977	AC064861	6423	1-399
HODGZ10	487	961977	AC073838	6424	1-399
HODHC03	488	922987	AC009237	6425	1-1362
HODHC03	488	922987	AC009237	6426	1-720
HODHC03	488	922987	AC009237	6427	1-307 580-1408
HODHD16	489	974924	AL162431	6428	1-42
	1				915-1065
					1167-1633
					2254-2484
					3637-4873
HODHD16	489	974924	AC064851	6429	1-42
					915-1057

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HOFAE61	509	707359	AC015841	6460	1-146
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HOFMA24	511	782275	AC027590	6461	1-150
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HOGCX95	591	890607	AC024052	6463	1-1585
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HTEIH70	1131	573826	AC020908	7427	1-107
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HTEJB81	1167	870644	AC005230	7477	1-2439
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HTEJN49	1178	558383	AL354888	7493 ·	1-250
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					11625-11713
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HTEKF68	1200	772997	AL357117	7516	1-634
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HTEKO49	1205	723148	AC021527	7520	1-159
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HTEKZ50	1217	524054	AC008552	7540	1-424
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HTEMP48	1279	767863	AL049761	7646	1-267
HTEMP49	1280	932319	AC005848	7647	1-50
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TIMES OF CC	1001				4162-4388
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					12776-13144
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HTEMU17	1286	789623	AL118559	7650	1-369
HTEMU17	1286	789623	AL159141	7651	1-309
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HTEMZ04	1290	927021	AC068707	7654	1-102
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HTENB03	1292	923050	AL157814	7657	1-30
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HTENB03	1292	923050	AL157814	7658	1-550
		775544	AC069539	7659	1-890
HTENC22	1293 .	1//3344	1240007.337		
HTENC22	1293	773344	AC009339	1039) i
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HTENF08	1294	958378	AC018682	7662	1 750
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HTENI58	1299	917213	AL121980	7664	1-252
HTENI58	1299	917213	AL121980 AL121980		1-716
IIIENIS	1299	917213	AL121980	7665	1-179
HTENK69	1303	011557	A CO (2010	7666	373-573
IIICINEOS	1303	844557	AC063919	7666	1-696
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HTENK69	1303	044557	A C072 420	7.65	1506-1768
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HTENO50	1305	060212	A G000074	7660	1506-1768
HIENOSU	1303	969213	AC009874	7668	1-315
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IIIENOSO	1303	909213	AC009874	7669	1-1809
					1985-2077
HTENP80	1307	775387	AL035453	7670	2851-7606
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HTENP80	1307	775387	AL035453	7671	4407-4511
HTENQ05	1307	928244			1-342
111111003	1308	920244	AC024952	7672	1-126
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					9966-10000
					12088-12311
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HTENQ05	1308	928244	A CO19639	7672	14356-14874
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HTENQ05	1308	928244	AC024952	7674	1-368
HTENQ05	1308	928244	AC018638	7675	1-368
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HTENS22	1312	785996	AP001034	7677	1-964
			1		1560-2151
HTENS22	1312	785996	AC015840	7678	1-965
					1070-1278
71000	1010			<u> </u>	1561-2152
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HTENS43	1313	784936	AC011959	7680	1-189
7777770	1010	-			439-1562
HTENS43	1313	784936	AF131216	7681	1-188
TIMPNIGG1		050515			440-1562
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HTENS91	1314	870515	AC048382	7683	1-1000
HTENS91	1314	870515	AC016771	7684	1-53
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HTENX77	1317	771409	AP000484	7686	1-1719
HTENX77	1317	771409	AP000484	7687	1-255
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HTENY35	1319	884043	AC006208	7689	1-1385
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IIIEOWS	1336	870300	AL330404	1/12	1-142
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HTLBE55	1392	967408	AC005258	7794	1-89
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HTLDQ25	1415	870057	AT 250200	7021	128-185
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HTLEG65	1425	906989	AC011442	7844	1-281
	1427	870154	AC026083	7845	1-1655
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HTLEI47	1430	573460	AC025959	7850	1-307
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MILLED	1737	917022	AC02/621	7633	213-300
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IIIEEE	1757	317022	AC030181	1657	687-774
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HILEESI	1437	669950	AF053356	7879	1-71
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HTLE554	1444	911654		7886	1-1969
HTLET78	1444	836820	AL356984	7887	1-1371
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YIMI DOGG		<u> </u>	,		1691-2473
HTLET78	1445	836820	AC027307	7889	1-64
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HTLET78	1445	836820	AC027307	7890	1-80
HTLET93	1446	573454	AC021744	7891	1-105
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HTLFC20	1457	917128	AL354944	7917	1-116
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IIILGM07	1470	932234	AC003088	1932	1-85 509-995
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HTLHE72	1475	963471	AL353608	7934	1-510
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HTLHO94	1477	968685	AC006445	7938	1-1321
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HTLIK11	1489	966043	AC008649	7941	1-504
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HTLIP19 1490 958351 AC018595 7944 1-140 HTLIP52 1495 942161 AC011448 7945 1-194 HTLIP52 1495 942161 AC011448 7945 1-194 424-1198 1938-2018 3137-3317 5423-5732 5894-6019 6299-6608 7425-7771 8216-8713 9697-9815 9872-9959 10811-1127 11264-11754 11867-12454 12539-1398 14020-14373 14522-15107 15641-15786 18585-22176 22246-22801 24994-25641 26099-26401 28795-29074 29176-29432 29653-29854 31298-31468 31507-32203 32864-33359 34805-34936 35464-35750 35878-36319 36610-37065 37680-38123 38902-39124 42685-42991 48694-49237 49352-49706 52310-52618 53725-54348 54650-55016	<u></u>	T:	1			6446-6554
HTLIP19 1490 958351 AC018595 7944 1-140 HTLIY52 1495 942161 AC011448 7945 1-194 424-1194 1938-2018 3137-3317 5423-5732 5894-6019 6299-6608 7425-7771 82168713 9697-9815 9872-9959 10811-11127 11264-11754 11867-12454 12539-13980 14020-14373 14522-15107 15641-15786 18585-22176 22246-22801 24994-25641 26099-26401 28795-29074 29176-29432 29653-29854 31298-31468 31507-32203 32864-33579 34805-34936 35464-35750 35878-36319 36610-37065 37680-38123 38902-39124 42685-42993 43593-43745 47682-47911 48694-49237 49352-49706 52310-52618 53725-54348 54650-55016						
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	1	II.			79-745
					880-1680
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					4861-5265
HTENL95	1848	795314	AC069217	8671	1-32
					79-745
	<u> </u>				880-1679
HTENL95	1848	795314	AF238376	8672	1-32
	,				79-745
					880-1680
HTENL95	1848	795314	AC022930	8673	1-150
					215-626
				J	662-1438

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HTENL95	1848	795314	AC022930	8674	1-297
HTENL95	1848	795314	AC069217	8675	1-297
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HTENA08	1850	958380	Z97985	8680	1-264
HTEMY05	1851	880592	AC019326	8681	1-734
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HTEMU66	1853	944419	AL022167	8685	1-1796
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HTEMU66	1853	944419	AC022305	8689	1-686
HTEMU66	1853	944419	AL049186	8690	1-87
HTEMN80	1856	775543	A'P001386	8691	1-2970
		1,755 (5	111 001300	10051	3001-4307
HTEMN80	1856	775543	AP002785	8692	1-2974
		1	12 002700	3032	3005-4311
HTEMN80	1856	775543	AP001386	8693	1-300
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HTELV29	1861	806421	AC068938	8696	1-643
HTELV29	1861	806421	AC073407	8697	1-2055
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					3928-4379
•		·		1.	4421-5222
					7704-8003
				1 .	11303-11530
					12021-12259
					12917-14410
HTELV29	1861	806421	AC073407	8698	1-350
HTELP07	1862	952274	AC041014	8699	1-118
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HTELA02	1864	918699	AC021688	8701	1-687
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111 E.K.102	1000	012802	AC005848	8702	1-164
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					3020-3168
					4072-4415
1					5074-5526
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11121202	1000	012002	AC003646	8703	1-863
ĺ	Ī				1241-1590 1666-2167
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,	ļ				2500-2950
		·			3000-2930
	,			-	3351-3962
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:	1				5616-5892
	Ì	1.			6622-6727
	:				7156-8018
HTEKD77	1868	772397	AC018865	8704	1-1638
HTEJV94	1869	793039	AC058807	8705	1-946
HTEJV94	1869	793039	AC003669	8706	1-946
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					6507-7124
					7157-7605
TITEL 20	1070	(0.550)	<u> </u>	1	7842-8575
HTEJL30	1872	696784	AC012379	8708	1-2084
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HTEJL30	1872	696784	AC012379	8710	1-142
HTEJL30	1872	696784	AC009697	8711	1-719
HTEJL30	1872	696784	AC012379	8712	1-719
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UIENDO/	1874	953801	AC073625	8714	1-494
НТЕЈВ07	1874	052901	4.0000004	0515	2402-2532
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HIEJBU/	1874	953801	AC073625	8716	1-1712
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HTEIS34	1075	997110	A CO COO CO	10510	1727-2677
П I E1334	1875	887112	AC069257	8718	1-635
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					1645-2361
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			٠	Ì	3399-3766
					3842-4045
HTEIS34	1875	887112	AC026308	8719	1-635
		1			725-895
·					1011-1169
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	+				3842-4045
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HTEFO46	1899	719280	AC068790	8741	1-31
	 				136-656
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	İ	ļ			136-942
HTTTT	1000	605202	1.0000100		1083-4020
HTEFO28	1900	685383	AC023123	8743	1-119
	İ				151-982
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					2256-2608
					2974-3413
					4977-5488
				1	5507-8584
					8676-10198
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	'				151-982
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HTEFO28	1900	685383	AC023123	8745	1-546
TYPEROOF	1000	(05000	1.000.555	10516	601-659
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UTEEO20	1000	605202	A C006524	0749	239-272
HTEFO28	1900	685383	AC006534	8748	1-546

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UTPETO	1006	675071	1.0000000	0740	601-659
HTEET22	1906	675071	AC022930	8749	1-649
	•				1562-2338
	•				2374-2785
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HIEE122	1906	675071	AC069217	8750	1-777
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HIEE122	1906	675071	AF238376	8751	1-38
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HTEEF25	1907	677513	AC007324	8775	1-234
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HTEDX03	1911	925353	AC005300	8790	1-202
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HTEDW96	1912	881958	AC017028	8793	1-108
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HTEDV86	1914	785818	AL356801	8798	
HTEDO75	1918	767024	AL049541	8799	1-142
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HTEDI01	1923	961028		8800	1-295
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HTEDH06	1929	869427	AC006251	8806	1-718
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					6013-6910
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		• .			656-1023
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HTEDF22	1935	908406	AL138891	8816	1-155
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TIME OF CC	1006		17.000.51	10000	5520-5850
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HARCES	1007	500000	4 600 5000	0000	1614-2136
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HTECE51	1939	870723	AC016976	8826	1-425
HTECE51	1939	870723	AC027764	8827	1-425
HTECE31	1941	508104	AC069360	8828	1-283
HTECE31	1941	508104	AC023850	8829	1-283
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HTECD88						
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HNBVH02	2413	917719	AL355822	9718	1-103
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HNBUQ06	2415	933673	AC022558	9724	1-133
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HBGBG52	2635	522424	AL162739	10203	1-604
HBGBB78	2638	773930	AC008403	10204	1-1630
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НВСЈР02	2642	917981	AP000795	10211	1-935
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НВСЈР02	2642	917981	AC011088	10214	1-379
HBCJG07	2643	951898	AL158821	10215	1-179
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HBCJG07	2643	951898	AL158821	10216	1-401
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				<u> </u>	1279-2180
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				-	14744-15306
HAUAS89	2646	518847	AC008044	10220	1-55
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HAUAS89	2646	518847	AC008044	10221	1-495
HAUAQ28	2647	685374	AC027523	10222	1-1260
HAUAQ28	2647	685374	AC011774	10223	1-1260
HAUAQ28	2647	685374	AP001848	10224	1-1260
HAUAQ28	2647	685374	AC027523	10225	1-535
HAUAQ28	2647	685374	AC011774	10226	1-535
HAUAQ28	2647	685374	AP001848	10227	1-535
HACMR08	2650	955638	AC012318	10228	1-147
HACMR08	2650	955638	AL121844	10229	1-219
HACMR08	2650	955638	AC013553	10230	1-280
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					24031-24645
					24690-24771
					26370-27118
HACMR08	2650	955638	AL121656	10231	1-2346
					2487-3703
					3832-4167

Table 1B summarizes additional polynucleotides encompassed by the [074] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

TABLE 2

Clone ID	Config	CHO	Anglycic	Dram/ND Description	DE-MAID			
NO.		y 1	ore themes	Transitat Describing	FFAIIVING ACCESSION	Score/		Z
7.0N	:m	NO:X	Method		Number	Percent Identity	From	To
H7MDD72	847688	13	blastx.2	(AF034780)	gb AAC98919.1	95%	597	7
				lysosphingolipid receptor Edg5 [Homo sapiens]				
H7MDD72	887805	2651	HMMER	PFAM: 7 transmembrane	PF00001	118	75	899
			1.8	receptor (rhodopsin				
HAOSH55	952380	14	blastx 2	(AF200357) nantothenate	OHIA A F73057 11A F7	7001	,	227
-				kinase 1 beta [Mus	00357 1	9/0/	7	/66
				musculus]	-1			
HAQAK73	764671	15	blastx.2	galactosylceramide-like	pir JC5238 JC5238-	9459	129	7
				protein, GCP - human				
HAQBJ71	839982	18	blastx.2	BasR [Escherichia coli]	dbj[BAA03143.1	%16	127	2
00010	,		,			51%	392	123
HBCJS08	92/876	23	blastx.2	(AK002129) unnamed	dbj BAA92096.1	%99	188	346
	·		•	protein product [Homo				,
				sapiensj				
HBGBG42	922396	30	blastx.2	(AF161472) HSPC123 [Homo sapiens]	gb AAF29087.1 AF1 61472 1	%0\$	85	315
HBGBT79	525352	33	blastx.2	Invasin. [Escherichia coli]	dbj BAA15799.1	58%	35	331
						46%	3	209
						87%	199	246
HBGBW60	954916	34	blastx.2	paired-like homeodomain	gb AAB39864.1	100%	101	235
				protein PRX2 [Homo	·			
				sapiens]				<u>.</u>
HBGDE85	524875	37	blastx.2	core protein [Escherichia coli]	gb AAA24544.1	%06	_	126

HBGDS13	9411696	38	HMMER	PFAM: Zinc finger, C2H2	PF00096	4.57	167	211
			1.8	type			3	i
			blastx.2	rhaR (AA 1-312)	emb CAA29453.1	%98	257	129
				[Escherichia coli]	•	95%	141	100
HBGDT43	974223	39	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%08	445	311
				protein product [Homo		,		
				sapiens]				
HBGMD05	870189	41	blastx.2	Fos-related antigen	gb AAA79137.1	%88	4	207
				[Rattus norvegicus]				
HBGMZ39	947112	45	HMMER	PFAM: Cytochrome P450	PF00067	59.5	509	372
			2.1:1					
			blastx.2	cytochrome P450 2B -	pir JT0676 JT0676	43%	563	372
				green monkey	•	43%	299	168
						40%	165	121
HBGND09	848219	47	blastx.2	(AF156271) RING finger	gb AAD40286.1	%16	2	367
			ı	protein terf [Homo			-	
				sapiens]				•
HBGNM13	912730	49	blastx.2	(AE000420) putative	gb AAC76465.1	%16	188	75
				regulator [Escherichia		-		
				COII				
HBGNO07	952212	20	blastx.2	(AK000496) unnamed	dbj BAA91205.1	81%	383	303
				protein product [Homo		33%	169	53
				sapiens]				
HBGNQ31	887152	51	blastx.2	(AF022821) putative	gb AAD09338.1	%95	10	183
				potassium channel DP4				
				[Mus musculus]				_
HBGPH02	918513	28	blastx.2	alpha 1C adrenergic	dbj BAA06901.1	71%	452	327
				receptor isoform 2 [Homo		93%	339	292
				sapiens]		%69	292	254

HBGPV05	930706	09	blastx.2	(AE000157) orf,	gb AAC73617.1	%LL	617	36
				hypothetical protein		47%	555	346
			-	[Escherichia coli]		%91	619.	545
HBGTR84	886529	65	blastx.2	(AL137718) hypothetical protein [Homo sapiens]	emb CAB70890.1	30%	21	581
HBNAY58	558193	72	blastx.2	human elongation factor- 1-delta [Homo sapiens]	emb CAA79716.1	73%	. 263	400
HCBNW02	950897	08	blastx:2	(AC008372) unknown [Homo sapiens]	gb AAF23326.1 AC0 08372 2	44%	1	270
HCBOG03	922351	82	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098	6.1	95	112
HCHAD40	923764	88	blastx.2	unidentified reading frame	emb CAA23893.1	85%	211	152
				[Escherichia coli]		87%	311	264
						100%	264	226
						81%	325	302
нснво03	923763	35	blastx.2	unidentified reading frame [Escherichia coli]	emb CAA23893.1	%86	334	158
HCHND96	880585	94	blastx.2	(AF141920) roadblock	gb AAD45986.1 AF1	75%	174	455
				[Drosophila melanogaster]	41920_1			•
HCHOA76	740102	95	blastx.2	(AK000385) unnamed	dbj BAA91131.1	64%	499	335
				protein product [Homo	,	75%	590	195
				sapiens]		28%	336	286
HCHOD89	954866	96	blastx.2	cytochrome P450 2C34v2	gb AAA79105.1	53%	94	189
				[Sus scrofa]		33%	9	98
нсновое	934941	86	blastx.2	(AK001623) unnamed	dbj BAA91793.1	.%68	183	440
				protein product [Homo sapiens]				
HCO0Z11	965306	105	HMMER 1.8	PFAM: Src homology domain 3	PF00018	5.22	179	214
	-	_					-	

589	176	221	270	258	252	23	210	315	348	276	453 283	305
182	114	18	178	169	169	94	371	205	28	1	3/0	234
100%	20.88	79%	100%	100%	%99	87%	72%	36.9	37%	28%	31%	9.6
emb CAA18266.1	PF00096	gb AAD37115.1 AF1 17814_1	emb CAB70754.1	gb AAF08343.1 AF0 80470 1		gb AAB31222.1	dbj BAA91131.1	PF00023	gb AAB01605.1	emb CAA52297.1		PF00047
(AL022238) dJ1042K10.2 (supported by GENSCAN, FGENES and GENEWISE) [Homo	sapiens] PFAM: Zinc finger, C2H2 twe	(AF117814) odd-skipped related 1 protein [Mus musculus]	(AL137469) hypothetical protein [Homo sapiens]	(AF080470) pallid [Homo sapiens]		truncated protein [Saccharomyces - cerevisiae]	(AK000385) unnamed protein product [Homo saniens]	PFAM: Ank repeat	ankyrin 3 [Mus musculus]	putative [Kattus	[m.8-	PFAM: IG (immunoglobulin)
blastx.2	HMMER 1.8	blastř.2	blastx.2	blastx.2		blastx.2	blastx.2	HMMER 2.1.1	blastx.2	UlabiA.2		HMMER 1.8
	1111		124	125	,	126	133	137	140	<u> </u>		142
	963100		851219	785121	, 66200	88/321	851213	823900	955791	1/700/		780837
	HEAAA42		НЕЕАН07	HEEAJ58	11111 A 1777	HEEAJ /0	HEEAW01	HEGAB84	HEGA182			HEGAO83

				superfamily				
HEGAZ61	950033	149	HMMER 2.1.1	PFAM: Reprolysin family propeptide	PF01562	141.4	276	999
			blastx.2	epididymal apical protein	emb CAA46929.1	%76	09	999
				I-precursor [Macaca fascicularis]				
HEPAB70	557149	151	blastx.2	ORF_ID:o209#7	dbj BAA35540.1	83%	66	.329
	,		ı	[Escherichia coli]		81%	43	141
						%06	326	355
HEPAP02	926914	160	blastx.2	WW domain binding protein-1 [Homo sapiens]	gb AAD10950.1	100%	59	163
HEPBA39	919875	163	HMMER 1.8	PFAM: lipocalins	PF00061	26.73	117	- 509
			blastx.2	(AF109472) epididymal	gb[AAC98311.1]	42%	314	99
				protein 52 [Oryctolagus cuniculus]				'
HEPBH38	707524	169	blastx.2	(AK000385) unnamed	dbj BAA91131.1	23%	319	146
				protein product [Homo sapiens]			, •	
HEPCT32	947081	179	blastx.2	(AJ243311) matrix	emb CAB46656.1	32%	262	989
				metalloproteinase-2	,	39%	262	477
				[Equus caballus]		32%	24	269
						27%	18	275
HEPCU32	931824	180	HMMER 1.8	PFAM: lipocalins	PF00061	11.52	208	627
			blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	502	630
				protein [Mus musculus]	4316.1	20%	336	482
						%09	279	308
HEPCU32	946975	2652	HMMER	PFAM: lipocalins	PF00061	11.52	405	524

HEQAE65 11438 181 HAMAER PFAM: Myosin head Protein [Mus musculus] 4316.1 60% 176 176 181 HAMAER PFAM: Myosin head Protein [Mus musculus] 4316.1 60% 176 176 181 HAMAER PFAM: Myosin head Protein [Mus musculus] 4316.1 60% 176 181 Hamaer PFAM: Myosin head Protein [Mus musculus] 181 Hamaer PFAM: Myosin head Protein [Mus musculus] 182.1 182.1 182.2				10					
509500 182 HMMER PFAM: Myosin head PF00063 35.1				1.0					
Section Protein [Mus musculus] 4316.1 20%				blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	399	527
5 911438 181 HMMER PFAM: Myosin head PF00063 35.1					protein [Mus musculus]	4316.1	20%	233	379
5 911438 181 HMMER PFAM: Myosin head PF00063 35.1 5 2.1.1 (motor domain) Blastx.2 (AF234532) myosin X gb AAF37875.1 AF2 100% 99690 182 blastx.2 (AJ007558) nucleoporin emb CAA07553.1 85% 17 769973 183 blastx.2 (AF053944) aortic gb AAC25585.1 100% 14 50970 189 blastx.2 (AF053944) aortic gb AAC25585.1 100% 34% 26 509300 189 blastx.2 (AF209069) hypothetical gb AAA57291.1 57% 10 79965 191 blastx.2 (BE-binding factor [Mus gb AAA37291.1 57% 10 536192 201 HMMER PFAM: Src homology PF00018 3.73 16 53649 217 blastx.2 zinc finger protein gb AAC50260.1 70% 1 74% 217 blastx.2 zinc finger protein gb AAC50260.1 74% 1							%09	176	205
Community Comm	HEQAE65	911438	181	HMMER	PFAM: Myosin head	PF00063	35.1	. 50	148
Mark				2.1.1	(motor domain)				
Homo sapiens 34532 1 85%				blastx.2	(AF234532) myosin X	gb AAF37875.1 AF2	100%	2	154
699690 182 blastx.2 (AJ007558) nucleoporin emb CAA07553.1 85% 769973 183 blastx.2 (AF053944) aortic gb AAC25585.1 100% 769973 183 blastx.2 (AF053944) aortic gb AAC25585.1 100% 9 protein ACLP [Homo sapiens] 31% 509300 189 blastx.2 (AF209069) hypothetical gb AAF16744.1 AF2 98% 509300 189 blastx.2 IgE-binding factor [Mus gb AAA37291.1 37% 536192 201 HMMER PFAM Sr homology PF00018 3.73 1.8 domain.3 2015489 217 blastx.2 zinc finger protein gb AAC50260.1 78% 799689 217 blastx.2 zinc finger protein gb AAC50260.1 78% 700% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70% 70%				,	[Homo sapiens]	34532_1			
155 [Homo sapiens] 155 [Homo sapiens] 97% 2	HEQAH70	069669	182	blastx.2	(AJ007558) nucleoporin	emb CAA07553.1	85%	176	343
i 769973 183 blastx.2 (AF053944) aortic gb AAC25585.1 100% i carboxypeptidase-like 100% 34% protein ACLP [Homo 34% sapiens] 34% sapiens] 34% 509300 189 blastx.2 (AF209069) hypothetical gb AAF16744.1 AF2 98% 799665 191 blastx.2 [gE-binding factor [Mus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 70% 74% 2NF133 [Homo sapiens] 2NF133 [Homo sapiens] 2NF134 74%					155 [Homo sapiens]		%16	49	171
769973 183 blastx.2 (AF053944) aortic gb AAC25585.1 100% 100% araboxypeptidase-like 100% 34% 100% protein ACLP [Homo 34% 24% 31% 269300 189 blastx.2 (AF209069) hypothetical gb AAF16744.1 AF2 98% 799665 191 blastx.2 IgE-binding factor [Mus gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 70% 74% 74%							%59	288	347
100% protein ACLP [Homo sapiens] 34%	HEQA076	769973	183	blastx.2	(AF053944) aortic	gb AAC25585.1	100%	148	201
Protein ACLP [Homo sapiens] 34% 34%					carboxypeptidase-like	1	100%	-	45
Sapiens Sapiens Sapiens 34% 31% 31% 36%					protein ACLP [Homo		34%	592	430
Sog 189 blastx.2 (AF209069) hypothetical gb AAF16744.1 AF2 98% 35% 356% 35%					sapiens]		34%	569	400
Sogno 189 blastx.2 (AF209069) hypothetical gb AAF16744.1 AF2 98% 35% 799665 191 blastx.2 IgE-binding factor [Mus gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% 70% 70868 217 blastx.2 zinc finger protein gb AAC50260.1 78% 74%				1			31%	329	433
509300 189 blastx.2 blastx.2 (AF209069) hypothetical protein [Homo sapiens] gb AAF16744.1 AF2 blasty 98% blastx.2 799665 191 blastx.2 lgE-binding factor [Mus musculus] gb AAA37291.1 sp./mar. 57% blastx.2 536192 201 HIMMER PFAM: Src homology brotein PF00018 blastx.2 3.73 blastx.2 925489 217 blastx.2 zinc finger protein gb AAC50260.1 blastx.2 78% blastx.2 ZNF133 [Homo sapiens] 2NF133 [Homo sapiens] 70% blastx.2					•		36%	311	424
509300 189 blastx.2 (AF209069) hypothetical protein [Homo sapiens] gb AAF16744.1 AF2 98% 799665 191 blastx.2 IgE-binding factor [Mus musculus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] 20% 70%					,		24%	592	.415
509300 189 blastx.2 (AF209069) hypothetical protein [Homo sapiens] gb AAF16744.1 AF2 98% 799665 191 blastx.2 IgE-binding factor [Mus musculus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] ZNF133 [Homo sapiens] 44%							21%	390	431
509300 189 blastx.2 (AF209069) hypothetical protein [Homo sapiens] gb AAF16744.1 AF2 98% 799665 191 blastx.2 IgE-binding factor [Mus musculus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] 2NF133 [Homo sapiens] 70%							35%	314	418
799665 191 blastx.2 IgE-binding factor [Mus musculus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] ZNF133 [Homo sapiens] 70%	HETAF89	509300	189	blastx.2	(AF209069) hypothetical	gb AAF16744.1 AF2	%86	72	248
799665 191 blastx.2 IgE-binding factor [Mus] musculus] gb AAA37291.1 57% 536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] ZNF133 [Homo sapiens] 70%					protein [Homo sapiens]	09069_2			
536192 201 HMMER PFAM: Src homology PF00018 3.73 1 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] 70%	HETAH66	299662	191	blastx.2	IgE-binding factor [Mus	gb AAA37291.1	21%	109	216
536192 201 HMMER PFAM: Src homology PF00018 3.73 925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] 70%					musculus]		37%	20	115
925489 217 blastx.2 zinc finger protein gb AAC50260.1 78% ZNF133 [Homo sapiens] 70%	HETAZ13	536192	201	HIMMER 1.8	PFAM: Src homology domain 3	PF00018	3.73	165	245
70%	HETDI03	925489	217	blastx.2	zinc finger protein	gb AAC50260.1	78%	18	131
					ZNF133 [Homo sapiens]		%02	15	134
							74%	15	131

143	131	146	131	146	134	140	292		292	216	480		531		069		1146	434	262	347	294	392		770	}
18	- 18	18	18	. 18	18	18	233		218	112	418		7		628		355	204	200	303	268	213		133	761
%99	73%	%09	71%	62%	64%	65%	69.6		95%	61%	3.03		94%		9.64		25%	70%	%08	23%	%88	15.57	,	360/	800
					,		PF00097		gb AAC40075.1		PF00293		emb CAA22894.1		PF00435		gb AAB01786.1		dbj BAA92096.1	1		PF00047		sn O615811O61581	
				,			PFAM: Zinc finger,	C3HC4 type (RING finger)	(AF034745) LNXp80	[Mus musculus]	PFAM: Bacterial mutT	protein	(AL035291) hypothetical	protein [Homo sapiens]	PFAM: Spectrin alpha	chain, repeated domain	myosin II heavy chain	[Naegleria fowleri]	(AK002129) unnamed	protein product [Homo	sapiens]	PFAM: IG	(immunoglobulin)	FOLUSTATIN-TIKE 2	(FOLLISTATIN-LIKE PROTEIN).
ŀ							HIMIMER	1.8	blastx.2		HMMER	1.8	blastx.2	,	HIMIMER	1.8	blastx.2		blastx.2			HIMIMER	1.8	hlastx 2	
							220				227				230				233			237			
							525407				799658				954104				973702			947978			
							HETDP21				HETFC82				HETFI24				HETFM43			HETGL74			

450		308			214		223	246	260	683	831	829	227		364		200	520		714		711	588
160	_ 47	201		213	98	336	122	1	6	9	685	719	3		2		63	455	520	82		<i>L</i> 9	496
51%	35%	53.4		%59	48%	41%	%46	75%	150.4	94%	21%	48%	402		<i>L</i> 9		%48	72%	100%	150		%05	100%
gb AAC52388.1		PF01410		gb AAB41274.1			emb CAA71575.1	gb AAF28992.1 AF1 61432 1	PF00168	dbj BAA84656.1		-	dbj BAA91205.1		PF01237		gi 4927370 gb AAD3	3084.1 AF067972_1		PF00429		gb AAD34324.1	gil5912069lemblCAB
rhophilin [Mus musculus]		PFAM: Fibrillar collagen	C-terminal domain	type V collagen [Gallus	gallus]		fused-ccdB [Escherichia coli]	(AF161432) HSPC314 [Homo sapiens]	PFAM: C2 domain	(AB025258) granuphilin-a	[Mus musculus]		(AK000496) unnamed	protein product [Homo sapiens]	PFAM: Oxysterol-binding	protein	(AF067972) DNA	cytosine methyltransferase	3 alpha [Homo sapiens]	PFAM: ENV polyprotein	(coat polyprotein)	(AF108843) env protein [Homo saniens]	(AL117538) hypothetical
blastx.2		HIMIMER 3.1.	2.1.1	blastx.2			blastx.2	blastx.2	HMMER 2.1.1	blastx.2		1	blastx.2	, 	HMMER	2.1.1	blastx.14			HMMER	7.1.7	blastx.2	blastx.14
244		246					248	250	262	<u>.</u>		_	263		270		272			283			284
745503		851412					966185	766589	927120				966194		910030		941045			944774			920690
нетно63		HETHR24					HETIF01	HETIJ84	HETJX04				HETJY11		HETKV26		HETKZ65	·		HLWAH41			HLWAI13

	337	168	553	292	110	330	411	465	87	129	207	245
	357	118	1287	1287	21	121	52 488	710	229		130	3
	6.51	6.05	214.2	%66	9.46	32.6	37%	41%	54%	%69	100%	%96
55984.1	PF00098	PF00096	PF00001	gb AAD22047.1	PF00505	PF00047	gb AAC47314.1	gb AAC51337.1	gb AAC06181.1	gb AAF22030.1 AF1 18094 25	gb AAB92665.1	gb AAF28953.1 AF1
protein [Homo sapiens]	PFAM: Zinc finger, CCHC class	PFAM: Zinc finger, C2H2 type	PFAM: 7 transmembrane receptor (rhodopsin family)	(AF119815) G-protein- coupled receptor [Homo sapiens]	PFAM: HMG (high mobility group) box	PFAM: Immunoglobulin domain	Frazzled [Drosophila melanogaster]	line-1 reverse transcriptase [Homo sapiens]	(AC004416) WUGSC:H_RG013N12.g w.1335199.a gene product [Homo saviens]	(AF118086) PRO1992 [Homo sapiens]	(AF034209) RIG-like 5-6 [Homo sapiens]	(AF161393) HSPC275
	HMMER 1.8	HMMER 1.8	HMMER 1.8	blastx.2	HMMER 1.8	HMMER 2.1.1	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	285	286	288		299	317		330	339	355	375	392
	746460	694216	947484		782938	929647		969363	529410	678444	973487	919295
	HLWAJ64	HLWAK69	HLWAR77		HLWBQ84	HLWFG82		HNOAX12	HODAG37	HODBT58	HODCV09	НОББО21

				[Homo sapiens]	61393 1			
L9SQQOH	567197	394	blastx.2	(AK001614) unnamed	dbj BAA91790.1	100%	69	164
				protein product [Homo	-	100%	14	67
				sapiens				
HODER91	789661	419	HIMIMER	PFAM: Zinc finger, C2H2	PF00096	11.06	163	225
			1.8	type				
			blastx.2	(AC007059) Human	gb AAD19818.1	35%		294
	•		i	homolog of Mus musculus		•		
				wizL protein [AA 4-1561]				
				[Homo sapiens]				
HODEX10	926260	423	HMMER	PFAM: Helicases	PF00271	9.2-	22	54
			1.8	conserved C-terminal		,		, '
				domain				
НОДРОВ	934304	451	blastx.2	(AK000496) unnamed	dbj BAA91205.1	48%	466	254
				protein product [Homo		%09	537	454
				sapiens]				1
HODFY16	958329	459	HMMER	PFAM: Phorbol esters /	PF00130	3.15	175	213
	,		1.8	diacylglycerol binding				
				domain			•	
HODGC61	973449	463	HIMMER	PFAM: Protein-tyrosine	PF00102	6.61	130	222
			1.8	phosphatase				
HODGH02	917969	465	blastx.2	DN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	94%	17	118
				PROTEIN.				
HODGH04	926255	466	blastx.2	IDN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	51%	∞	247
				PROTEIN.				
HODGJ67	974297	471	blastx.14	pol gene protein; Xxx	gi 1196424 gb AAA8	%0 <i>L</i>	132	284
				[Homo sapiens]	8026.1			
HODGP95	059806	477	HMMER	PFAM: Zinc finger, C2H2	PF00096	18.49	209	271
			1.8	type				

310	310	292	310	334	307	310	310	357	357	357	357	357	357	2	231		124		399	133	180	127	100	330		399	397	91
125	146		125	74	146	164	164	307	307	307	310	307	307	235	287		2		142	2	263	192	120	286		49	236	44
61%	25%	23%	41%	34%	20%	21%	46%	47%	47%	47%	20%	35%	41%	41%	21%		30.1		%89	72%	39%	45%	85%	1.62		72%	61%	20%
gb AAC32422.1												ı		pir S72489 S72489	,		PF00620		gb AAB81198.1		gi 2318003 gb AAB6	6461.1		PF00052		gb AAA60282.1		
(AC005498) R31665_1	[Homo sapiens]			,										hypothetical protein	Tigger 2 - human	transposon MER37 1	PFAM: RhoGAP domain	-	(AC002398) F25965_3	[Homo sapiens]	unknown [murine	herpesvirus 68]		PFAM: Laminin B	(Domain IV)	ribosomal protein L7a	large subunit [Homo	sapiens]
blastx.2														blastx.2	ı		HMMER	2.1.1	blastx.2		blastx.14			HMMER	1.8	blastx.2		
														479			481				207			512				
													- 1	974290			894368				932211			572941				
														НОДСО22			НОДСО92				HOFAD05			HOFMB78				

116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	115	116	116	116	116	116	116	116	116	116	116
298		295	295	- 298	295	289	738	295	295	298	289	295	295	298	295	295	295	295	297	295	295	295	295	289	586	295	585	289	295
54%	46%	%05	51%	24%	20%	21%	82%	48%	46%	52%	48%	43%	51%	46%	45%	43%	46%	45%	24%	43%	43%	45%	46%	44%	44%	43%	44%	46%	43%
emb CAA58337.1												ı										,							
U88 [Human herpesvirus	[9]																	ı											
blastx.2															,			,											
516																													
924679														•			<u></u>												
HOFMF03		_																											

																					4			_			
116	116	116	116	115	115	115	288	259	386	248		416	484		457	476	_	_	. 287		296	403	69	327	228	323	355
295	289	289	295	342	339	297	244	113	285	105		114	452		83	312			102		09	326	19	286	40	231	320
43%	48%	43%	41%	44%	41%	42%	20.4	85%	20%	33.6		%86	72%		%99	64%			104.8		93%	%88	100%	100%	%96	%96	%99
						•	PF00029	emb CAA06165.1		PF02064		gi 285987 dbj BAA02	804.1		emb CAA42218.1 -	,			PF00118	•	emb CAA02863.1	•			emb CAB46829.1		
							PFAM: Connexin	(AJ004856) connexin31	[Homo sapiens]	PFAM: MAS20 protein	import receptor	mitochondrial outer	membrane protein 19	[Homo sapiens]	19 kDa subunit of -	NADH:ubiquinone	oxidoreductase complex	(complex I) [Bos taurus]	PFAM: TCP-1/cpn60	chaperonin family-	unnamed protein product	[unidentified]			(AJ388527) Ribosomal	protein [Canis familiaris]	
							HIMMER	blastx.2		HMMER	2.1.1	blastx.14			blastx.2				HMMER	2.1.1	blastx.2				blastx.2		
							517			818					519				520						523		
!							734917			973358					964722				920365						796358		
							HOFMF70			HOFMG21					HOFMH12				HOFMH38						HOFMI62		

ein PF01667 109.1	
	PFAM: Ribosomal protein S27
gb AAD20974.1 95%	(AF070668) 40S
	ribosomal protein S27 isoform [Homo sapiens]
al emb CAB55992.1 . 65%	(AL117557) hypothetical protein [Homo sapiens]
PF01025 49.4	PFAM: GrpE
gb[AAC53534.1 73%	mt-GrpE#1 precursor
86%	Rattus norvegicus]
al emb CAB43677.1 68%	(AL050369) hypothetical
100%	protein [Homo sapiens]
64%	
gb AAF28919.1 AF1 53%	(AF161359) HSPC096
61359_1 46%	[Homo sapiens]
%69	
72%	
emb CAA82246.1 50%	glucosephosphate
%08	isomerase [Sus scrofā]
. 40%	ŧ
(v) emb CAA92991.1 82%	Huntington Disease (HD)
%05	gene exon 1 [Homo sapiens]
dbj BAA91091.1 63%	(AK000334) unnamed
-	protein product [Homo sapiens]
emb CAB52022.1 60%	(AL109701) C15orf3

				[Homo sapiens]		%98	09	125
						37%	128	301
						33%	128	334
HOFNG06	935569	556	blastx.2	(AL133584) hypothetical	emb CAB63728.1	%06	08	241
				protein [Homo sapiens]		%06	99 .	95
						100%	253	270.
HOFNI08	974435	558	blastx.2	(AJ224442)	emb CAA11944.1	81%	25	423
				methyltransferase [Homo sapiens]				
HOFNL18	666498	561	HMMER	PFAM: Bacterial mutT	PF00293	4.34	286	345
			1.8	protein				
HOFNL25	616963	562	HMMER	PFAM: Ribosomal L18ae	PF01775	250.8	62	331
•			2.1.1	protein family	•			
			blastx.2	ribosomal protein L18a -	pir S03957 R5RT18	73%	47	514
				rat				
HOFNL37	906250	563	blastx.2	vimentin [Mus musculus]	dbj BAA19834.1	21%	204	377
						41%	175	396
						100%	140	178
HOFNT59	615305	267	blastx.2	(AB026125) ART-4	dbj BAA86961.1	%65	146	451
				[Homo sapiens]		42%	18	479
HOFNU72	705435	268	blastx.2	(AF086708) 26S	gb AAC64104.1	94%	46	204
				proteasome subunit 11	,	%56	200	259
				[Homo sapiens]		81%	261	308
HOFNW79	973351	570	blastx.2	(AJ388527) Ribosomal	emb CAB46829.1	%96	85	273
-				protein [Canis familiaris]		100%	276	362
						84%	365	403
						38%	80	133
HOFNY50	715312	572	blastx.2	(AF047704) tuftelin [Mus	gb AAC04577.1	%26	224	388
				musculus]		81%	127	222

143	425	477	369	233	43	347	388	179	73	257	504	790	643	586	40		151	293	377	431	377	85	209
69	393	427	. 13	87	23	141	347	78	2	216	205	650	599	200	177		20	225	93	111	132	2	81
%89	%06	28%	%08	%98	85%	43%	21%	47%	45%	42%	32.8	36%	%09	27%	%08		70%	68.7	%88	35%	34%	85%	32%
,			gb AAD29427.1	gb AAA36383.1		emb CAB54316.1		gi 995826 gb AAC50	242.1		PF00077	gi 1397275 gb AAB0	3138.1		dbj BAA92096.1		gb AAF22025.1 AF1 18094 20	PF00096	gb[AAB17949.1				
			(AF139185) myomegalin [Rattus norvegicus]	nucleobindin [Homo	sapiens]	T28D6.9 [Caenorhabditis	elegans]	cyclin A/CDK2-	associated p45 [Homo	sapiens]	PFAM: Retroviral aspartyl proteases	No definition line found	[Caenorhabditis elegans]		(AK002129) unnamed	protein product [Homo sapiens]	(AF118081) PRO1900 [Homo sapiens]	PFAM: Zinc finger, C2H2 type	Bowel [Drosophila	melanogaster]			
-			blastx.2	blastx.2	•	blastx.2		blastx.14			HMMER 1.8	blastx.14	ı		blastx.2		blastx.2	HMMER 2.1.1	blastx.2		-		
			579	280		582		584			591	592			602		605	615					
			751692	827631		606999		947431			209068	968956			706816		705406	909138					
			HOFOB88	HOFOB91		HOFOF57		HOGAF39			HOGCX95	HOGEE76			HOVBY34		HOVCD39	ноуек70					

[Tio	~	-	<u> </u>	_	<u>~</u>		T~		Tai	_			T_		Tee		1,0	1		_	_
457	382	226	108	234	326	09	302	10	148		232	387	305	461	569	604	238		355	385	423		40
368	212	92	13	7	237	-	279	96	89		89	304	792	384	342	446	89		149	68	385		249
33%	61%	53%	62%	82%	73%	35%	75%	75%	5.1	!	%96	%88	95%	53%	93%	78%	11.95		42	100%	84%	,	94%
	gi 3114713 gb AAC7 8826.1	gi 1196425 gb AAA8	8027.1	gi 531241 dbj BAA01	393.1			gi 2981631 dbj BAA2 5253 1	PF00505		gi 4164442 gb AAD0	5419.1			emb CAB46721.1		PF00119		PF00047	gb AAD42050.1 AF1	11713_1		gi 5802182 gb AAD5 1615.1 AF159714 1
	(AF061346) Edp1 protein [Mus musculus]	envelope protein [Homo	sapiens]	2-oxoglutarate	dehydrogenase precursor	[Homo sapiens]		(AB012223) ORF2 [Canis familiaris]	PFAM: HMG (high	mobility group) box	(AF044954)	NADH:ubiquinone	oxidoreductase PDSW	subunit [Homo sapiens]	(AL031427) dJ167A19.1	(novel protein) [Homo sapiens]	PFAM: ATP synthase A	chain -	PFAM: Immunoglobulin domain	(AF111713) junctional	adhesion molecule [Homo	sapiens	(AF159714) PPAR gamma coactivator-1
	blastx.14	blastx.14		blastx.14		١		blastx.14	HMMER	1.8	blastx.14				blastx.2		HIMMER	1.8	HMMER 2.1.1	blastx			blastx.14
	635	637		643				959	700		802				710		711		712				731
	922481	966158		967704				914115	960372		928614				925424		655753		884289				926787
	HPDOT03	HPDP169		HPDRG92			٠	HPEKG18	HPFEA08		HPIAS40				HPIAX11		HPIAZ37		HPIBQ37				HPJCC04

				[Homo sapiens]				
HPJDA08	958182	741	blastx.14	zinc finger 5 protein [Gallus gallus]	gi 1399185 gb AAB3 8387.1	39%	92	475
HPJET90	836503	750	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	150.4	99	371
HPMEG50	925080	908	blastx.14	Mst84Dc [Drosophila	gi 11075 emb CAA47	62%	7	30
			,	melanogaster]	939.1	. 28%	22	105
20 202						44%	126	152
HPMFL08	959569	819	HMMER 1.8	PFAM: Src homology domain 3	PF00018	4.97	209	. 238
HPMGF06	954823	845	blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	92%	37	564
HPMGI03	924521	848	blastx.14	(AF106933) plexin B	gi 4056676 gb AAD0	36%	49	147
				[Drosophila melanogaster]	9426.1	%09	148	177
						63%	12	44
						43%	288	335
				1		%99	359	385
HPMGX23	575903	864	HMMER 1.8	PFAM: Helix-loop-helix	PF00010	99'9	96	194
HPMJF76	965642	875	blastx.14	pol protein [Human	gi 1780973 emb CAA	28%	234	326
				endogenous retrovirus K]	71417.1	40%	28	138
						63%	134	199
HPMJN59	946876	877	HMIMER	PFAM: Prolyl	PF00326	21.87	138	251
			1.0	ongopepudase ramily				·
			blastx.2	(AC005594) R26984_1 [Homo saniens]	gb AAC33801.1	%19	138	521
HPMKM81	894416	884	HMMER	PFAM: Homeobox	PF00046	82.2	70	228
			2.1.1	domain		i	,	077
HPRCC08	939490	901	blastx.14	2.19 [Homo sapiens]	gi 854082 emb CAA6	54%	120	296

					0645.1			
HPWAS77	908450	914	HMMER	PFAM: gag gene protein	PF00607	92.3	655	266
			2.1.1	p24 (core nucleocapsid				2
				protein				
			blastx.14	gag protein [Human	gi 1780975 emb CAA	37%	730	248
				endogenous retrovirus K]	71418.1	38%	185	108
						45%	253	188
						20%	25	2
HSWAC73	710354	926	HMMER 1.8	PFAM: WD domain, G- beta repeats	PF00400	66.6	134	190
HTEAL28	963538	939	blastx.14	(AL080154) hypothetical	gil5262611lemblCAB	36%	234	413
				protein [Homo sapiens]	45745.1		}	3
HTEBC74	887782	945	HMMER	PFAM: Armadillo	PF00514	20.2	58	183
			1.8	segment protein, repeats)	3
HTEBY08	960427	954	HIMIMER	PFAM: Protein	PF01240	92.8	63	251
			2.1.1	phosphatase 2A regulatory	•			!
				subunit PR55				
			blastx.14	protein phosphatase 2A1	gi 619215 gb AAA58	%16	63	197
				B gamma subunit	956.1	87%	231	254
				[Oryctolagus cuniculus]				
HTECA21	911369	796	HMMER	PFAM: PDZ domain	PF00595	57.6	100	354
			2.1.1	(Also known as DHR or	,			•
				GLGF).				
			blastx.14	tyrosine phosphatase	gi/1486367/emb/CAA	57%	85	351
				[Homo sapiens]	56124.1	51%	467	652
HTEDI02	921243	994	HMMER	PFAM: Leucine Rich	PF00560	36.2	346	414
			2.1.1	Repeat		!	2	<u>, </u>
			blastx.14	densin-180 [Rattus	gi 1657758 gb AAC5	36%	220	450
				norvegicus]	2881.1	32%	214	450

456	450	453	441	450	450	612	453	453	588	909	909	909	603	612	164	118	454	889	535	472	388	502	490	629	267	436	44
220		214	214	- 214	268	463	220	214	463	463	463	463	463	463	6	11	305	287	452	251	293	332	311	269	184	329	6
34%	30%	33%	792	767	36%	36%	24%	79%	40%	78%	73%	31%	767	24%	104.6	%99	46%	85%	21%	24%	78%	792	15%	24%	32%	25%	2.19
	-											1			PF00210	gi 5733824 gb AAD4	9751.1 AF176069_1				1						PF00099
															PFAM: Ferritins	(AF176069) ubiquilin	[Homo sapiens]				-						PFAM: Zinc-binding
														1	HMMER	blastx.14		,						•	-		HMMEK
						-			·					100	/001	1013											101/
	 -													002002	686066	932315										221606	cnc1//
-														TTTTT	niebųsu [HTEDU48	-									UTEDWOO	nieDi36

			1.8	metalloprotease domain				
HTEDY54	922964	1018	blastx.14	lysozyme [Gallus gallus]	gi 63426 emb CAA43	46%	969 -	457
-	·····	<u>.</u>			319.1	41%	405	220
					· ·	61%	234	181
HTEGM38	675087	1059	HMMER 2.1.1	PFAM: DnaJ domain	PF00226	65.2	93	197
HTEGO05	932583	1061	HMMER 2.1.1	PFAM: Eukaryotic protein kinase domain	PF00069	50.8	3	233
			blastx.14	male germ cell-associated	gi 205278 gb AAA41	85%	3	395
				kinase (mak) [Rattus	562.1	64%	489	761
	•			norvegicus]		85%	292	. 848
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						38%	1023	1100
нтенс47	973071	1085	blastx.2	unnamed protein product [unidentified]	emb CAB42447.1 -	29%	112	612
HTEHI14	526687	1096	HMMER 2.1.1	PFAM: lactate/malate	PF00056	50.6	222	371
HTEHS19	529280	1113	HMMER	PFAM: 7 transmembrane	PF00002	103	16	135
			2.1.1	receptor (Secretin family)			2	<u> </u>
HTEHV72	920610	1117	HMMER 2.1.1	PFAM: IQ calmodulin- binding motif	PF00612	41.7	178	240
HTEIB14	663096	1127	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	53.9	78	146
			blastx.14	Bowel [Drosophila	gi 1388166 gb AAB1	%06	6	236
-				melanogaster]	7949.1	33%	6	230
						%08	227	316
						33%	6	230
						46%	6	149
						78%	54	230
						31%	230	334

316	381	380	426	275	367	406	400	406	406	406	406	406	137	406	409	431	431	431	431	431	263	216	225
224	307	297	358	117	188	353	353.	353	353	353	368	356	99	353	356	411	411	411	408	414	192	-	-
35%	32%	32%	34%	64%	. 28%	20%	-20%	20%	20%	44%	%19	47%	45%	38%	44%	100%	85%	85%	87%	. 100%	11.27	34.7	70.1
				gi 4680715 gb AAD2 7747.1 AF132972 1	gi 55471 emb CAA38	920.1		•							,						PF00036	PF01490	PF00456 ·
				(AF132972) CGI-38 protein [Homo sapiens]	Zfp-29 [Mus musculus]			,							1				1		PFAM: EF hand	PFAM: Transmembrane amino acid transporter	PFAM: Transketolase
				blastx.14	blastx.14	ţ			٠												HMMER 1.8	HMMER 2.1.1	HMMER 2.1.1
				1128	1136																1139	1148	1154
				958355	967431																953803	941155	870652
				HTEIF40	HTEIK11																HTEIL07	HTEIP88	HTEIU92

HTEIV54	922027	1155	hlacty 14	n18H-rey 107 [Battus	cil/133063lemblC A & c	/00V	030	600
		22.	+T-Vicero	promite to livating	Kalanden Cara	40%	600	780
				norvegicus	3991.1	%59	_ 251	364
HTEIY80	955242	1163	blastx.14	(AF146793) protein B	gi 4836805 gb AAD3	%16	320	454
				[Mus musculus]	0564.1 AF146793_1	74%	453	569
						83%	1111	203
						31%	257	322
HTEJE15	098360	1170	HMMER	PFAM: Helicases	PF00271	14.92	5	52
		_	1.8	conserved C-terminal				
				domain				
			blastx.14	vasa-like gene protein,	gi 806464 gb AAB33	73%	2	190
				RVLG protein=putative	364.1	84%	242	319
				DEAD 1 [Rattus sp.]		%59	188	265
HTEJF45	942476	1172	HMMER	PFAM: Zinc-binding	PF00099 ·	2.28	593	637
			1.8	metalloprotease domain				
		_	blastx.2	(AB017800) nolp [Homo	dbj BAA34576.1	%69	135	299
			ı	sapiens]		23%	290	487
					-	412%	523	549
						37%	240	629
HTEJP10	914785	1180	HIMMER	PFAM: Heat shock hsp90	PF00183	13.29	110	214
			1.0	proteins				
HTEJP66	916481	1181	blastx.14	(AF151885) CGI-127	gi 4929723 gb AAD3	100%	499	639
				protein [Homo sapiens]	4122.1 AF151885_1	62%	626	902
HTEKS20	846714	1210	HMMER 2.1.1	PFAM: EF hand	PF00036	84.7	453	539
HTELE10	963563	1221	blastx.14	integumentary mucin B.1	gi 1184035 emb CAA	75%	339	244
				[Xenopus laevis]	64795.1			_
HTELJ89	966134	1229	HMMER	PFAM: Zinc-binding	PF00099	2.6	290	316
			1.8	metalloprotease domain			-	
HTELV86	910946	1252	HMMER	PFAM: Fibronectin type	PF00041	77.22	400	699

			1.8	III domain				
			blastx.14	neural cell adhesion	gi 1016012 gb AAC5	%96	- 1	918
				protein BIG-2 precursor	2262.1	%89	096	1025
				[Rattus norvegicus]		%76	976	196
						%99	22	75
						78%	_	171
						82%		54
	,					78%	286	399
						42%	10	93
						44%	280	354
						33%	274	390
						33%	286	357
					,	100%	1028	1054
						45%	184	225
-				•		100%	1057	1077
			1			28%	658	741
HTEMA54	911666	1260	HMMER 2.1.1	PFAM: Actin	PF00022	320.7	247	1161
			blastx.14	actin [Girardia tigrina]	gi 4204812 gb AAD1	42%	253	849
					1530.1	44%	955	1911
						25%	1232	1360
					•	48%	847	927
						28%	1169	1204
HTEMK03	953066	1273	blastx.14	(AF116463) unknown	gi 4455041 gb AAD2	37%	302	216
				[Streptomyces	1045.1	23%	171	127
				lincolnensis]		47%	348	292
						23%	55	17
						35%	231	181
						42%	190	134

PCT/US01/01339

WO 01/55320

78	∞	629	103	286	286	286	292	286	304	286	286	286	286	283	- 286	283	866	931	280	383	226	319	337	450
134	43	12	. 35	2	2	7	2	7	2	7	2	2.	5	2	S	2	606	998	20	240	80	122	143	331
45%	28%	%16	51.5	61%	26%	26%	54%	25%	20%	23%	%19	21%	53%	21%	25%	51%	40%	45%	78%	37%	32%	62.3	47%	32%
,		gi 5912114 emb CAB 55995.1	PF00096	emb CAA55533.1						1						-			gi 2653671 gb AAC1	5893.1		PF00651	gi 3599513 gb AAC3	5368.1
		(AL117564) hypothetical protein [Homo sapiens]	PFAM: Zinc finger, C2H2 type	zinc finger protein [Homo	sapiens]											ł			120 kDa style	glycoprotein [Nicotiana	alata]	PFAM: BTB/POZ domain	(AF086831)	leukemia/lymohoma related factor cLRF
ı		blastx.14	HMMER 2.1.1	blastx.2									1			,			blastx.14			HMMER 2.1.1	blastx.14	
		1280	1281	_				•											1284			1288	-	
		932319	909280	_										•					934338			913795		
	TYMAN CO. 10	HIEMP49	HTEMR65															, 0 mg	H1EM106			HTEMX92		

	514	L		214		199	+	166	132	1	644	808	592		100	236	349	435	295
	308	269	101	68	446	107		83	10		285	620	449		20	69	266	358	59
	118.2	43%	43%	792	. 57%	6.37	,	11.77	82%		%6L	74%	6.56		14.65	15.44	22.29	11.37	126.92
	PF00505	gi 639691 dbj BAA06	440.1			PF00196	·	PF00515	gil1171248 gb AAC5	0354.1	gi 4210989 gb AAD1	2066.1	PF00097		PF00008	PF00505	PF00036	PF00125	PF00062
[Gallus gallus]	PFAM: HMG (high mobility group) box	HMG-X protein [Xenopus	[laevis]			PFAM: Bacterial	regulatory proteins, luxR family	PFAM: TPR Domain	protein kinase related to	Raf protein kinases; 1	(AF121781) unknown	[Homo sapiens]	PFAM: Zinc finger,	C3HC4 type (RING finger)	PFAM: EGF-like domain	PFAM: HMG (high _ mobility groun) box	PFAM: EF hand	PFAM: Core histones H2A, H2B, H3 and H4	PFAM: C-type lysozymes
	HMMER 2.1.1	blastx.14				HIMMER	1.8	HMMER	blastx.14		blastx.14		HMMER	 8:	HMMER 1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8	HIMIMER 1.8
	1299				_	1306		1307	1309		1311		1319		1327	1330	1333	1336	1338
	917213					787535	_	775387	963530		920834		884043		847224	870575	815852	870532	870566
	HTENI58					HIENP54		HTENP80	HTENR10		HTENR93	T CA AL CLARACIA A	HIENY35		HTEOF80	нтеоіз6	HTEON29	HTEOV90	HTEOW39

HTEPA08	958391	1340	blastx.14	(AF004430) hD54±ins2	mi128050851241A ACO	100		
				isoform [Homo sonions]	8/28/3003/80/AACS	41%		482
Γ	917576	12/7	משאעים	DEANG TIONED SAPICIES	04/0.1	%19	483	575
	07676	154/	FIMIMEK 2.1.1	FFAIM: metallopeptidase family M24	PF00557	203	2	442
			blastx.14	(AC002387) putative	gi 2583129 gb AAB8	%89	2	442
				methionine	2638.1	51%	40	700
				aminopeptidase	-	1		100
\exists			1	[Arabidopsis thaliana]		· ,		
	870561	1354	HMMER	PFAM: LIM domain	PF00412	95.6	4	180
7			2.1.1	containing proteins			•	3
	952243	1356	blastx.14	WW domain binding	gi 4205086 gb AAD1	54%	174	311
7				protein-2 [Homo sapiens]	0951.1	42%	6	158
	947107	1359	blastx.14	(AF081947) tektin [Mus	gi 4235350 gb AAD1	73%	30	689
T	017407	,,,,,		muscuins	3183.1	21%	72	590
	91/400	1366	HMMER 2.1.1	PFAM: Ank repeat	PF00023	30.4	343	435
			blastx.14	alt. ankyrin (variant 2.2)	gi 747710 emb CAA3	41%	247	411
†	000000			Homo sapiens	4611.1			
	8/0698	1367	HMMER	PFAM: Double-stranded	PF00035	36	808	669
╁	915108	1271	11004-14	(4 Oco 1977)				
	061616	1/01	olastx.14	(AC004877) sco-spondin-	gi 3638957 gb AAC3	30%	278	171
_				mucin-fike; similar to	6301.1	33%	592	195
				F9610/ 1 sapiens]		43%	188	141
						45%	206	447
						24%	110	78
						45%	121	65
+	050254	1272	1.12.24. 14			25%	260	177
-	7,00,04	13/3	orastx.14	(AF 132972) CGI-38	gi 4680715 gb AAD2	20%	334	645
1				protein [Homo sapiens]	7747.1 AF132972 1	28%	149	349

48		455			869		501		1096		268	1096	109/	652	34	445	616	934			271	355		119		422
7		174	,		141		472		170		170	761	<i>LL</i> 19	593	2	245	239	797	632	611	197	179	57	51		12
5.99		32.9			74%		3.53		345.2		%0\$	45%	53%	45%	63%	119.8	%19	78%	41%	40%	47.6	61%	42%	80.8		70%
PF00505		PF00335			gb AAF08363.1 AF1	33424_1	PF00293		PF00022		gi 290399 gb AAC80	574.1				PF00226	gi 3402485 dbj BAA3	2209.1		ı	PF00096	gb AAA86728.1	- -	PF00096		emb CAB36862.1
PFAM: HMG (high	mobility group) box	PFAM: 4 transmembrane	segments integral	memorane proteins	(AF133424) tetraspanin	TM4-B [Homo sapiens]	PFAM: Bacterial mutT	protein	PFAM: Actin		actin 2 [Echinococcus	granulosus]				PFAM: DnaJ domain	(AB014888) MRJ [Homo	sapiens]			PFAM: Zinc finger, C2H2 tyne	Kruppel-like factor LKLF	[Mus musculus]	PFAM: Zinc finger, C2H2	type	(AL022067) dJ134E15.1
HMMER	1.8	HMMER	1.8		blastx.2		HMMER	1.8	HMMER	7.1.1	blastx.14				1.	HMMER 2.1.1	blastx.14				HMMER	blastx.2		HMMER	2.1.1	blastx.2
1379		1381					1383		1398		-					1402					1407			1409		
966141		939641					924799		911655	_						908832					908613			909254		
HTEQP45		HTEQR15					нтеот63		HTLCA95		•					HTLCY54					HTLDE64			HTLDF33		

			1	(Blimp-1) [Homo sapiens]	¢.	38%	24	392
HTLDG55	911645	1410	blastx.14	actin [Trypanosoma	gi 161963 gb AAA30	48%	_ 95	199
				brucei]	151.1	28%	28	63
HTLD094	915223	1413	blastx.14	(AC004667) hypothetical	gi 3668087 gb AAC6	37%	96	263
				protein [Arabidopsis	1819.1	34%	108	263
				thaliana]		37%	108	242
						44%	40	93
						30%	37	105
						38%	40	93
						73%	43	93
HTLDS55	891322	1416	HMMER 2.1.1	PFAM: Cell division protein	PF00735	454.7	233	1069
			blastx.2	(AJ250723) septin-like	emb[CAB59833.1] -	63%	131	1054
				protein Sintl [Mus musculus]				
HTLDT05	909752	1417	HMMER	PFAM: PH domain	PF00169	36.9	59	271
			2.1.1					
			blastx.2	(AK000004) FLJ00004	dbj BAA92229.1	77%	47	487
HTI DI 105	011640	1/10	LINVILED	DEAM. Acting	DE00000	14146	101	
		CI + I	1.8	r Parvi. Acuilis	FF00022	141.45	C71	469
			blastx.14	(AF113908) actin-related	gi 4731565 gb AAD2	30%	2	469
				protein [Emericella nidulans]	8502.1 AF113908_1	33%	451	540
HTLEH30	934287	1429	blastx.14	(AF025310) tssk-1 and	gi 2739052 gb AAC0	%06	205	270
				tssk-2 kinase substrate	3366.1	%85	343	429
				[Mus musculus]		81%	306	338
HTLEJ11	973302	1431	HMMER 2.1.1	PFAM: Eukaryotic protein kinase domain	PF00069	6.53	44	223
						1	7	

38% 877 939 262.03 134 703 52% 143 715 33% 787 963 52% 966 1022 216.9 38 433 1.97 172 225	877 134 143 787 721 966 1 38 38	877 134 143 787 721 966 1 38 38 172 172	877 134 143 787 721 966 1 38 38 172 172 77 77 33 376	877 134 143 787 721 966 1 38 38 172 77 77 77 77 79	877 134 143 787 721 966 1 966 1 172 267 77 38 3 376 376 376
7 26	7 7 7	36	CAB CAB 26	CAB	CAB
1 gb AAC49	llgb AAC49	llgb AAC49 57 gb AAC3 80 emb CAB	AC3	AC3	AC3
gi 508/01 gb AAC49 074.1 PF01483	1508 / U1 gb AAC49 74.1 F01483 F00130 13638957 gb AAC3	1508 / 0.1 gb AAC49 74.1 F01483 13638957 gb AAC3 301.1 15834580 emb CAB 5312.1	1508 / 01 gb AAC49 74.1 F01483 3638957 gb AAC3 301.1 5834580 emb CAB 5312.1 b AAC78801.1	1508 / 01 gb AAC49 74.1 F01483 13638957 gb AAC3 301.1 b AAC78801.1 b AAC78801.1	1508 / 01 gb AAC49 74.1 F01483 13638957 gb AAC3 301.1 b AAC78801.1 b AAC78801.1
PF01483 PF00130					
PFAM: Proprotein convertase P-domain PFAM: Phorbol esters	A: Proprotein strase P-domain A: Phorbol esters [glycerol binding in 04877] sco-spon 1-like; similar to 57 1 sapiens]	4: Proprotein stase P-domain 4: Phorbol esters lglycerol binding in 04877) sco-spon 1-like; similar to 57 1 sapiens] 7798) nuclear n SA3 [Homo	A: Proprotein artase P-domain A: Phorbol esters lglycerol binding in 04877) sco-spon 1-like; similar to 57 1 sapiens] 77798) nuclear n SA3 [Homo ns] 53356) ORF4 [H	4: Proprotein artase P-domain 4: Phorbol esters glycerol binding in 04877) sco-spon 1-like; similar to 57 1 sapiens] 7798) nuclear n SA3 [Homo ns] 53356) ORF4 [H ns] 1s]	4: Proprotein 1: tase P-domain 4: Phorbol esters 1: glycerol binding 1: no 1: similar to 1: sapiens 1: sapiens 1: sapiens 1: sapiens 1: sapiens 1: sapiens 1: sapiens 1: sapiens 1: cold-shock 1: cold-shock 1: cold-shock
PFAM: Pr convertase PFAM: Ph	PFAM: Pr convertase PFAM: Ph diacylglyc domain (AC00487 mucin-like	PFAM: Pr convertase PFAM: Ph diacylglyc domain (AC00487 mucin-like P98167 1 (AJ007798 protein SA sapiens]	PFAM: Pr convertase PFAM: Ph diacylglyc domain (AC00487 mucin-like P98167 13 (AJ007798 protein SA sapiens]	PFAM: Pr convertase PFAM: Ph diacylglyc domain (AC00487 mucin-like P98167 1 (AJ007798 protein SA sapiens] (AF05335 sapiens]	PFAM: Pr convertase PFAM: Ph diacylglyc domain (AC00487 mucin-like P98167 1; (AJ007798 protein SA sapiens] (AF05335 sapiens] PFAM: UP
HMMER 2.1.1 HMMER	TER TER C.14	GR (C.14 C.14	GR (C14 (C14 (C2)	GER (C.14 (ER) (C.2) (GER) (GE	(14 (17) (17) (17) (17) (17) (17) (17) (17)
1445 I 1448 I					
836820					
					HTLET78 HTLEV95 HTLEY11 HTLF139 HTLGD25 HTLGD25
	1.8 diacylglycerol binding domain	1.8 diacylglycerol binding diacylglycerol binding domain	1.8 diacylglycerol binding 1.8 diacylglycerol binding domain do	1.8 diacylglycerol binding 1.8 diacylglycerol binding domain do	1.8 diacylglycerol binding 1.8 domain 967309 1451 blastx.14 (AC004877) sco-spondin- 954984 1459 blastx.14 (AJ007798) nuclear 954984 1462 blastx.2 (AF053356) ORF4 [Homo gb AAC78801.1 953730 1462 blastx.2 (AF053356) ORF4 [Homo gb AAC78801.1 870136 1465 HMMER PFAM: Ubiquitin family PF00240 952254 1470 HMMER PFAM: 'Cold-shock'

			_								_						_			_	_						
485	614	761	750	720	203	519	519	261	456	541	178	261	219	273	. 276	70	207	846	95		260	443	528	577	625	483	572
393	549	711	199	637	117	475	487	187	379	503	113	232	181	229	196	14	181	637	6'		3	330	424	539	539	397	519
100%	100%	100%	36%	78%	34%	40%	63%	48%	38%	61%	40%	%08	61%	23%	37%	45%	%99	20.1	36.8		%88	92%	62%	100%	37%	34%	20%
0662.1						1		gi 1850097 dbj BAA0	9791.1				٠				•	PF00789	PF00313	,	gi 4837737 gb AAD3	0662.1					
specific Y-box binding	protein [Homo sapiens]							a6(IV) collagen [Homo	sapiens]							,		PFAM: UBX domain	PFAM: 'Cold-shock'	DNA-binding domain	(AF096834) germ cell	specific Y-box binding	protein [Homo sapiens]				
							1	blastx.14		,								HMMER 2.1.1	HMMER	2.1.1	blastx.14						
								1471										1473	1474					-			
								918606										870528	908428								
- · · · · · ·								HTLGT62										HTLGX90	HTLHC14								

613	634	479	140	531	363	479	284		243	358	455	270	308	475	749	- 542	46	137	137	137	137	187	240	293	187	281	387
584	509		54	- 460	256	405	195		-	287	402	235	240	152	591	465	2	3	3	3	45	128	181	234	128	234	340
%02	78%	23%	34%	37%	30%	30%	24.08		43%	%99	20%	28%	39%	83%	%09	%96	%99	37%	35%	33%	35%	45%	45%	45%	40%	20%	20%
							PF00076		gi 3925211 emb CAA	21539.1	,			gi 5230678 gb AAB6	2723.2			gi 482882 gb AAC46	499.1	1							
							PFAM: RNA recognition	motif. (aka RRM, RBD, or RNP domain)	(AL032626) cDNA EST	EMBL:D70654 comes	from this 1 1 1 yk377b8.3	comes f		(AF005038) secretory	carrier membrane protein	[Homo sapiens]		circumsporozoite protein	[Plasmodium vivax]			1					
,							HMMER	1.8	blastx.14					blastx.14				blastx.14						•	_		
		•					1478		1481					1484				1486									
							933335		946586	•				936139				963475									
						A COLLAND	HILHP32		HTLHT15			- 17		HTLHV67				HTLHZ10									

240	187	187	334	334	293	187	240	281	387	346	175	293	240	346	275	417	. 319	933	936		274	438	1340		1355		206
181	128	128	287	287	234	128	181	234	340	287	128	258	205	311	9	292	257	166	133		2	394	1152		3		3
40%	40%	40%	20%	20%	40%	40%	40%	20%	20%	40%	20%	20%	20%	20%	24%	71%	21%	251.19	44%		100%	100%	9.14		94%		83%
								•				1			gb AAC05601.1			PF00069	gb AAA99535.1		gb[AAC78801.1]		PF00018		emb CAB61362.1		gi 2739052 gb AAC0
															(AC004410) fos39554_1	[Homo sapiens]		PFAM: Eukaryotic protein kinase domain	serine/threonine kinase	[Mus musculus]	(AF053356) ORF4 [Homo	sapiens]	PFAM: Src homology	domain 3	(AL133030) hypothetical	protein [Homo sapiens]	(AF025310) tssk-1 and
,						,									blastx.2			HMMER 1.8	blastx.2		blastx.2		HMMER	1.0	blastx.2		blastx.14
															1488			1495			1496		1498				1500
									_						945891			942161			953729		922923				953714
															HTLID36			HTLIY52			HTLJA23		HTLJC71				HTLJD88

715	391	548	464	542	334	50	813		813	405	126	1096	254		251		972	491	1049		-	129	129	237	129	237	129	234
554	263	516	468	510	260	21	445		448	37	813	086	18		93		466	105	861	22		-				-	7	13
74%	%56	72%	17%	63%	32%	%09	317.7		85%	%59	80%	13%	63.2		46.7		%68	%96	28%	42.8		%9 <i>L</i>	72%	45%	%29	44%	%19	20%
3366.1							PF01144		gi 164423 gb AAA31	019.1		,	PF01871		PF01769		dbj BAA91192.1			PF00096	,	emb[CAA55529.1]		-		***************************************		
tssk-2 kinase substrate	[Mus musculus]						PFAM: Coenzyme A	transferase	succinyl-CoA:alpha-	ketoacid coenzyme A	transferase [Sus scrofa]		PFAM: Protein of	илкломи пилспол	PFAM: Divalent cation	transporter	(AK000480) unnamed	protein product [Homo	sapiens]	PFAM: Zinc finger, C2H2	type	zinc finger protein [Homo	sapiens]					
,							HMMER	2.1.1	blastx.14				HMIMER	2:1:1	HMMER	2.1.1	blastx.2			HMMER	2.1.1	blastx.2						
							1501						1515		1521					1532								
							924755						530564		973210					908937								
							HTLJJ75						HTTBJ94		HTTCT34					HTTD019								

190 287 190 190 287 287 221	190 649 352 827 424	1124	196	309	251	323
125 180 149 161 180 180	26 536 197 759	195	47	73	102	282
63% 36% 90% 36% 36% 57%	36% 52% 32% 52% 43%	84%	15.82	81%	44%	6.83
	gi 1098569 gb AAA8 2599.1	dbj BAA91592.1	PF00018 emb CAB41255.1	sp G545790 G545790	sp G545100 G545100	PF00175
	glycosyl-phosphatidyl- inositol-anchored protein homolog [Mus musculus]	(AK001269) unnamed protein product [Homo sapiens]	PFAM: Src homology domain 3 (AL049683) hypothetical protein [Homo sapiens]	DARPP-32=DOPAMINE AND CAMP- REGULATED PHOSPHOPROTEIN	SHB=SRC HOMOLOGY 2 PROTEIN.	PFAM: FAD/NAD-binding domain in oxidoreductases
	blastx.14	blastx.2	HMMER 1.8 blastx.2	blastx.14	blastx.14	HMMER 1.8
	1543	1556	1587	1594	1612	1639
	967819	950051	911390	966804	928053	922064
	HTTEU68	HTTFM66	HTTKP07	HUKAC72	HUVCQ07	HUVFH03

						_		,												
253	301	335	362	159	110	391	,	278		314	355		403	195	398	246		1212		278
110	47	147	135	395	151	2		216	•	201	134		185	130	231	217		103		382
51.2	94%	152.7	64% 55%	64%	75%-	70.01		6.35		39%	79.4		%26	100%	82%	100%		%86		100%
PF00651	gi 3287501 dbj BAA3 1223.1	PF01352	gi 498152 dbj BAA06 541.1	dbj BAA91205.1		PF00201		PF00096	•	gi 3551182 dbj BAA3 2790.1	PF01423	1	gi 3289993 gb AAC2	5622.1	gi 4557143 gb AAD2	2522.1 AF091457_1		dbj BAA06540.1		gi 6013325 gb AAF01
PFAM: BTB/POZ domain	(AB011665) BAZF [Mus musculus]	PFAM: KRAB box	ha0946 protein is Kruppel-related. [Homo	(AK000496) unnamed	protein product [Homo sapiens]	PFAM: UDP-	glucoronosyl and UDP-glucosyl transferases	PFAM: Zinc finger, C2H2	type	(AB012265) wizL [Mus musculus]	PFAM: Sm protein		(AC005258) R30783_1	[Homo sapiens]	(AF091457) zinc finger	protein RIN ZF [Rattus	norvegicus]	similar to human TRAMP	protein. [Homo sapiens]	(AF184971) cytokine
HMMER 2.1.1	blastx.14	HMMER 2.1.1	blastx.14	blastx.2	,	HMMER	1.8	HMMER	1.8	blastx.14	HMMER	2.1.1	blastx.14		blastx.14			blastx.2		blastx.14
1650		1653		1659		1668		1671			1673				1677			1679		1693
909169		908555	·	969208	: :	933167		957834			957658				930892			945834		961527
HUVGZ77		ноунс93		HVCAZ38		HVVBK72		HWLHJ68			HVVBY08				HUVGP05			HUVFI01		HUNAF20

	94	361	588		. 314	345	-685		,		163	118	401	336	468	938	720	272	272
	2	729	118		3	587	999				462	195	282	64	373	783	989	21	21
	%001	82.96	100%	1-1-	47%	35%	%05				45%	79%	79.1	%69	%89	%9L	71%	40%	.39%
320.1 AF184971_1	gi 4929649 gb AAD3 4085.1 AF151848_1	PF00089	gb AAF22500.1 AF1		gi 861294 gb AAA68 328.1	emb CAB04553.1					gi 3851160 gb AAC7 ·	2234.1	PF01352	gi 2749982 gb AAB9	5172.1	gi 595481 gb AAA56	720.1	emb CAA07188.1	
receptor homolog 1	(AF151848) CGI-90 protein [Homo sapiens]	PFAM: Trypsin	(AF100707) testes- specific protein TSP50	[Homo sapiens]	F35D2.4 gene product [Caenorhabditis elegans]	cDNA EST yk338f6.5	comes from this gene; cDNA EST	EMBL:D75296 comes	from this gene	[Caenorhabditis elegans]	(AF092091) cp431-	[Rattus norvegicus]	PFAM: KRAB box	(AF036705) Similar to	phytoene desaturase;. coded for 1 1 1 coded for	acetylcholine receptor	alpha 9 subunit [Rattus rattus]	(AJ006692) ultra high	sulfer keratin [Homo sapiens]
	blastx.14	HMMER 1.8	blastx.2	í	blastx.14	blastx.2					blastx.14		HMMER 2.1.1	blastx.14		blastx.14		blastx.2	
	1696	1710			1713	1744					1748		1762	1771		7997		1797	
	921132	957456		,	968333	869612	-				926772		460948	932997		946914		945862	
	HUNAE02	HUKEP18			HUKDG10	HTTJN26					HTTIR04		HTTDM42	HTTBP62		HTLHK57		HTLHB93	

HTLGS10	963458	1799	blastx.14	pro-alpha-2(I) collagen	gi 50489 emb CAA41	34%	108	212
				[Mus musculus]	205.1	20%	- 380	433
						792	186	320
						53%	302	340
HTLEQ92	932882	1804	blastx.14	(AL117444) hypothetical	gi 5911890 emb CAB	100%	9	107
				protein [Homo sapiens]	55929.1	100%	203	256
						36%	213	569
HTLEN77	772363	1806	HMMER 1.8	PFAM: EF hand	PF00036	26.93	294	380
HTLDZ81	778180	1810	HMMER 1.8	PFAM: Tubulin	PF00091	12.29	156	245
HTLDW27	961353	1811	blastx.14	(AF014461) EXO70	gi 2352998 gb AAB6	%56	239	109
				protein [Mus musculus]	9345.1	100%	186	236
						%88	92	126
						%92	_	51
				-		63%	36	89
HTLBH67	751985	1821	HMMER 1.8	PFAM: Src homology domain 3	PF00018	37.78	16	162
HTFBE02	920507	1830	HMMER	PFAM: Isopentenyl-	PF01772	956	103	701
			2.1.1	diphosphate delta- isomerase				 ì
HTEQN83	908528	1834	HMMER	PFAM: KRAB box	PF01352 -	7.86	81	203
			7.1.7					
			blastx.14	(AL080125) hypothetical	gi 5262560 emb CAB	62%	75	251
				protein [Homo sapiens]	45723.1	%99	39	74
HTEPE35	948475	1838	HIMIMER	PFAM:	PF00387	163.8	839	507
			2.1.1	Phosphatidylinositol-		_	_	
				specific phospholipase C, Y domain		7.		
_	_	_						

750	374	315	963	948	240	195	423	188	88	378	29	167	308	308	416			353
	165	154	613	604	507	395	482	214	300	602	85	9	195	150	348			42
48%	%16	27.8	114.85	49%	0/67	%7%	%2%	77%	%01	53%	52%	38.5	38.1	45%	39%		_	156.4
pir S14113 S14113	gi 4186073 emb CAA 09423.1	PF00069	PF00069	gb AAB03535.1	-: 10547777 LT A A C.E.	gl634/33 gp AAC32	1.002		gb AAC53331.1			PF00567	PF00651	gi 3860089 gb AAC7	2973.1			PF00025
1-phosphatidylinositol- 4,5-bisphosphate phosphodiesterase 1	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	PFAM: Eukaryotic protein kinase domain	PFAM: Eukaryotic protein kinase domain	MEK Kinase 3 [Mus	financial francia 1 money 1	isoform (Pottus	norvegicus]	,	(AF016184) putative	pheromone receptor	[Rattus norvegicus]	PFAM: Tudor domain	PFAM: BTB/POZ domain	(AF097916) HIV-1	inducer of short	transcripts binding protein	Homo sapiens	PFAM: ADP-ribosylation factor family
blastx.2	blastx.14	HMMER 2.1.1	HMMER 1.8	blastx.2	blocty 14	UldstA.14		-	blastx.2			HMMER 2.1.1	HMMER 2.1.1	blastx.14				HMMER 2.1.1
	1839	1852	1853		1855	707			1867			1892	1924					1926
	948845	813038	944419		964769	70/10/			942526			765901	909165					615250
	HTEOY82	HTEMV66	HTEMU66		HTEMO58				HTEKH17			HTEGJ74	нтерн90					HTEDH42

HTEDF22	908406	1935	HMMER	PFAM: Zinc finger,	PF00098	20.37	250	297
			1.8	CCHC class				
			blastx.2	nucleic acid binding	gb AAA89198.1	46%	52	303
				protein [Mus sp.]				
HTECC09	628829	1952	HMMER	PFAM: Zinc finger,	PF00097	14.18	261	338
			1.8	C3HC4 type (RING				
				finger)				
			blastx.2	(AF151048) HSPC214	gb AAF36134.1 AF1	%58	111	332
				[Homo sapiens]	51048_1			
HPWTA06	936026	1982	blastx.14	Collagenase precursor	gi 1742347 dbj BAA1	100%	624	454
				(EC 3.4). [Escherichia	5068.1	100%	359	207
				coli]		100%	457	362
						28%	216	115
						64%	169	98
HPWSA52	727294	1983	HMMER	PFAM: Homeobox	PF00046	11.67	215	262
			1.8	domain				
HPWAJ39	575271	1993	HIMMER	PFAM: Phorbol esters /	PF00130	2.68	81	122
			1.8	diacylglycerol binding				
				domain	į			
HPRAG45	939849	2672	HIMMER	PFAM: WD domain, G-	PF00400	21.65	135	212
			1.8	beta repeats				
HPMGR15	660374	2040	HMMER	PFAM: Phorbol esters /	PF00130 .	2.84	307	333
			1.8	diacylglycerol binding				
				domain				•
HPLAI10	202896	2074	blastx.14	AT motif-binding factor	gi 1345408 dbj BAA0	33%	443	496
				[Mus musculus]	5046.1			
HPJEV95	929723	2076	HMMER	PFAM: ATP synthase A	PF00119	20.61	169	393
			1.8	chain				
HPJDT03	922815	2083	HMMER	PFAM: WW/rsp5/WWP	PF00397	9.71	294	371
						-		

			1.8	domain containing proteins				
HPJDA25	951281	2087	blastx.2	(AF047690) ATP-binding cassette protein M-ABC1 [Homo sapiens]	gb[AAD15748.1]	73%	291	488
HPJDA25	951284	2676	blastx.14	(AF047690) ATP-binding cassette protein M-ABC1 [Homo sapiens]	gi 4321407 gb AAD1 5748.1	87%	219	97
HPIAQ70	973604	2130	HMMER 1.8	PFAM: Flagella basal body rod proteins	PF00460	41.51	206	298
,			blastx.14	Flagellar hook-associated protein 1 (hap1)	gi 1651528 dbj BAA3 5891.1	77%	322 194	498
HPCTD03	922149	2191	HMMER	PFAM: Pterin 4 alpha	PF01329	143.1	9	305
			2.1.1	carbinolamine dehydratase))
			blastx.14	pterin-4a-carbinolamine dehydratase [Homo sapiens]	gi 848985 gb AAA69 662.1	62%	18	311
HPCOV68	911075	2195	blastx.14	(AC004500) GDF-9 [Homo sapiens]	gi 2996640 gb AAC0 8450.1	64%	2	160
HPCAO89	946913	2196	HMMER 1.8	PFAM: Serpins (serine protease inhibitors)	PF00079	53.12	94	309
			blastx.2	leupin [Homo sapiens]	emb CAA61420.1	39%	309	327
HOVEE20	909030	2207	HMMER 2.1.1	PFAM: KRAB box	PF01352	105.4	229	348
			blastx.14	zinc finger protein 30 [Mus musculus	gi 456269 emb CAA8 2913.1	67%	193	348

_		_		1				
02001011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			domesticus				
HOVCO30	932544	2211	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.22	464	208
			blastx.14	(AF072860) protein	gil3290198 gb AAC2	82%	458	577
				activator of the 1	5672.1	43%	204	251
HOOKF04	925784	2244	blastx.14	(AF092091) cp431	gi 3851160 gb AAC7	94%	2	157
			,	[Rattus norvegicus]	2234.1	94%	158	265
,			١			73%	5	127
						.27%	نب	115
H00JN04	925783	2246	blastx.14	(AF011336) putative E1- F2 ATPase (Mus	gi 2944187 gb AAC0	100%	4	. 153
				musculus]	1.0.70	i		. !
HONAD02	859016	2261	HMMER 2.1.1	PFAM: Polyprenyl synthetases	PF00348	38.5	753	905
HOGAM56	908904	2276	blastx.14	ZINC FINGER [CLONE	sp G299838 G299838	63%	9	179
				ZNF78L1].		%89	3	152
				ı		%95	33	176
						20%	188	235
						46%	191	235
HOFNW65	815822	2286	HMMER 2.1.1	PFAM: Calpain family cysteine protease	PF00648	34.2	18	68
HOFNW07	953436	2288	HMMER 2.1.1	PFAM: Cytochrome c/c1 heme lyase	PF01265	21.1	259	354
			blastx.14	holocytochrome c-type	gi 1209635 gb AAB1	71%	190	360
				synthetase [Homo sapiens]	9007.1	83%	139	192
HOFNI10	964682	2301	blastx.14	similar to Human zinc-	gi 1504012 dbj BAA1	100%	150	269
,				finger protein,	3205.1	%06	64	153
				BK140(P1:JC2069)		100%	271	291

				[Homo sapiens]		%99	293	319
HOFNC80	835718	2303	HMMER	PFAM: IG	PF00047	11.98	148	291
			1.8	(immunoglobulin)				
				superfamily				
			blastx	(AF111714) junctional	gb AAD42051.1 AF1	71%	28	303
				adhesion molecule [Bos	11714_1	94%	306	362
				taurus]		. 33%	306	. 359
HOFMT55	888552	2311	HMMER	PFAM: Caspase	PF00619	. 43	111	239
			2.1.1	recruitment domain		,		
HOFMS43	947973	2313	HMMER	PFAM: Sushi domain	PF00084	64	174	302
			2.1.1	(SCR repeat)		ı		
			blastx.2	porcine membrane	dbj BAA20476.1	41%	12	317-
				cofactor protein [Sus				
				scrofa]				
HOFMP09	943358	2315	HMMER	PFAM: Immunoglobulin	PF00047	27.5	34	144
			2.1.1	domain				
			blastx	B-CAM [Homo sapiens]	emb CAA56327.1	%9L	31	351
						46%	300	464
						85%	473	553
	-					33%	247	372
				,		46%	283	327
				1		- 43%	91	138
HOFMF82	693987	2317	HMMER	PFAM: Zinc finger, C2H2	PF00096	10.91	44	106
	;		1.0	type				,
HOFMF82	694062	2688	HMMER	PFAM: Zinc finger, C2H2	PF00096	53.7	372	440
			2.1.1	type				
HOFMF82	909248	7689	HMMER	PFAM: Zinc finger, C2H2	PF00096	48.3	19	129
			2.1.1	type				
			blastx.14	zinc finger protein [Homo	gi 495568 gb AAC50	82%	19	429

				sapiens]	264.1	%05	55	429
						20%	25	405
						44%	79	429
						28%	4	99
HOFAF25	942367	2320	blastx.2	(AF036696) contains	gb AAB88349.1	39%	289	696
				similarity to Brassica				
				oleracea non-green 1				
			١	(GB:U13632)		"		
				[Caenorhabditis elegans]				
HODFF88	974911	2341	HIMMER	PFAM: Eukaryotic protein	PF00069	101.43	86	370
-,			1.8	kinase domain				
			blastx.14	mixed-lineage protein	pir S32467 JU0229	74%	131	493
				kinase 1 - human		81%	763	921
						30%	751	915
HODFD73	909812	2343	HMMER	PFAM: GTPase-activator	PF00616	34	190	390
			2.1.1	protein for Ras-like				
				GTPase -			,	
			blastx.14	(AB016962) synGAP-b1	gi 4417207 dbj BAA7	%86	4	480
				[Rattus norvegicus]	4972.1			
HODCZ64	745966	2357	blastx.2	elastin like protein	emb CAA59990.1	75%	3	98
				[Drosophila melanogaster]		45%	364	405
						42%	358	399
HODAK55	745532	2383	HMMER	PFAM: ATPases	PF00004	69.09	11	157
		·	1.8	associated with various				
				cellular activities (AAA)				
HOCPH02	917453	2400	HIMMER	PFAM: Zinc finger,	PF00097	8.27	265	309
			1.8	C3HC4 type (RING				
				tinger)				
HNIAB26	974750	2412	blastx.14	PR-1-like protein	gi[166861 gb AAA32	37%	388	143

			[Arabidopsis thaliana]	863.1			
915399	2419	blastx.14	(AL117637) hypothetical protein [Homo saniens]	gi 5912226 emb CAB	94%	155	328
869611	2443	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.29	350	379
931387	2445	blastx.14	(AF070657) glutathione	gi 4454690 gb AAD2	93%	89	286
			S-transferase subunit 13	0963.1	75%	486	533
		1	homolog [Homo sapiens]		100%	277	306
941397	2692	HMMER 1.8	PFAM: Integrins alpha chain	PF00357	163.29	115	459
959139	2448	HMMER	PFAM: Ank repeat	PF00023	13.97	3	44
971312	2693	HMMER	PFAM: Leucine rich	PF01463	51.7	317	466
		2.1.1	repeat C-terminal domain				
		blastx.2	(AF133270) SLIT2	gb AAD25539.1 AF1	%68	77	565
			[Homo sapiens]	33270_1	37%	77	481
			'		35%	92	505
					30%	92	553
					72%	495	524
					21%	493	534
961623	2466	blastx.14	(AB016088) RNA binding protein [Homo sapiens]	gi 5821145 dbj BAA8 3714.1	75%	321	-
909762	2471	HIMIMER	PFAM: Eukaryotic protein	PF00069	143.18	9	416
		1.8	kinase domain				,
		blastx.14	similar to cAMP-	gi 3878636 emb CAA	26%	9	416
			dependant protein kinase;	88953.1		- -	
			CDNA EST 1 1		•		
965638	2483	blastx.14	(AF151833) CGI-75	gi 4929619 gb AAD3	%88	347	526
			protein [Homo sapiens]	4070.1 AF151833 1	77%	247	339

-			,			93%	318	365
						81%	215	262
HEQCC01	924849	2488	blastx.14	(AF151878) CGI-120	gi 4929709 gb AAD3	73%	892	422
				protein [Homo sapiens]	4115.1 AF151878 1	%69	343	566
HEQBG85	827915	2492	HMMER 1.8	PFAM: Peroxidases	PF00141	24.44	. 13	162
HEQAD73	914044	2500	blastx.14	(AL023286) hypothetical	gil3116115 emb CAA	38%	319	444
				protein	18866.1	39%	463	546
		,		[Schizosaccharomyces pombe]		%02	203	232
HEPCB04	941270	2502	blastx.14	(AF153605) androgen	gi 5231135 gb AAD4	%16	524	387
				induced protein [Homo sapiens]	1087.1 AF153605_1			
HEPAJ04	933091	2513	blastx.14	(AL034368) predicted	gi 4760337 emb CAB	44%	95	148
	-			using hexExon; L779.3, 1	39078.2	81%	302	325
••••			1			20%	201	236
						20%	_	42
						45%	230	262
HEGBC03	922550	2516	blastx.14	similar to collagen	gi 3873667 emb CAA	21%	252	293
				[Caenorhabditis elegans]	94874.1	%99	229	255
HEEAX09	912065	2525	HMMER 1.8	PFAM: lipocalins	PF00061	12.2	98	205
			blastx.14	epididymal secretory	gi 56117 emb CAA42	39%	98	208
				protein I (ESP I) [Rattus	493.1	39%	∞	9/
				norvegicus]		33%	206	259
HEEAG51	930810	2533	blastx.14	(AF083108) sirtuin type 3	gi 5225322 gb AAD4	82%	94	282
				[Homo sapiens]	0851.1 AF083108_1	75%	260	295
HCOMM05	925952	2554	HMMER 1.8	PFAM: Src homology domain 3	PF00018	59.48	178	342

840	435	222	597	702		289	386	222	240	582	825	691	299	9/		241		295	556	561	1	267	201	201	355
445	_ 115	43	112	199		230	538	440	308	181	682	584	620	2		182		197	131	499		187	91	91	158
46%	43%	23%	64%	78%		1.52	100%	%89	39%	52%	75%	816	20%	8.45		9.49		62.3	72%	47%		37%	35%	32%	44.82
gb AAA62280.1			gi 409027 gb AAA16	142.1		PF00052	gi 4519621 dbj BAA7	5670.1	-	gi 1864093 gb AAB4	8590.1			PF00125		PF00125		PF00023	gi[5262748 emb CAB	45688.1		gi 2653311 emb CAA	06097.1		PF00072
epidermal growth factor	receptor kinase substrate	[Homo sapiens]	CDC42 GTPase-	activating protein [Homo	sapiens	PFAM: Laminin B (Domain IV)	(AB017614) OASIS	protein [Mus musculus]		PSD-95/SAP90-associated	protein-4 [Rattus	norvegicus]		PFAM: Core histones	H2A, H2B, H3 and H4	PFAM: Core histones	H2A, H2B, H3 and H4	PFAM: Ank repeat	(AJ133120) Proline rich	synapse associated protein	2 [Rattus norvegicus]	(AJ004801) very large	virion protein (tegument)	[Bovine herpesvirus type	PFAM: Response
blastx.2			blastx.14		TIP O CIT	HIMIMEK 1.8	blastx.14			blastx.14				HMMER	1.8	HMMER	1.8	HMMER 2.1.1	blastx.14			blastx.14			HMMER
			2556		2000	/\$67	2559			2562				2570		2578		2619				2624			2631
			069256		00000	802478	586996			935298				743411		672815		903653				954374			861602
			HCHOX63		TICID HIVE	HÇHIN W 48	HCHMW18			HCHMI15				HCHAI62		HCDMC22		HBGTT76				HBGMT82			HBGDF39

			1.8	regulator receiver domain				
HBCPV80	932817 2639	2639	HMMER	l	PF00397	64.2	_ 71	160
			2.1.1					
HAOCD07	958959 2649	2649	blastx.14	blastx.14 (AC005581) R31237_1,	gi 3510234 gb AAC3	100%		801
,				partial CDS [Homo	3487.1			
				sapiens]				

[075] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig indentifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a nonredundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

The NR database, which comprises the NBRF PIR database, the NCBI [076] GenPept database, and the SIB SwissProt and TrEMBL databases, was made nonredundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEO ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity

between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., [077] 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., Biological sequence analysis: probabilistic models of proteins and nucleic acids, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[078] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[079] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

- [080] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).
- [081] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[082] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromideagarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar

methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL 'for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[085] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is

used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total ' RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the reproductive system antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant reproductive system antigen.

[087] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore,

although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

- [088] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.
- [089] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., Nucleic Acids Res. 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., Nucleic Acids Res. 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., Strategies 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into E. coli strain XL-1 Blue, also available from Stratagene.
- Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., Nuc. Acids Res. 16:9677-9686 (1988) and Mead, D. et al., Bio/Technology 9: (1991).

[091] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of reproductive system associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[093] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[094] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[095] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988).

Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the reproductive system polypeptides of the present invention in methods which are well known in the art.

[096] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[097] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides

of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[098] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different

from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[099] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and

variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[0100] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B. column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0101] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the

polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0102] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0103] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0104] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-

described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0107] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or

alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[0108] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0110] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifier

SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0111] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3'10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the abovedescribed polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0112] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions

of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

$\overline{}$		Τ-	Т	Т	Т-						Г	_						Т	_	_	Т.	Τ.	_	7	T-							
	Accession #'s	THE PROPERTY OF THE PROPERTY O	AI139000, AA884996, AA889649, and AA724461.	AW182856, AI218191, AA834537, AA804628, AA827835, AF034780, and E07989	AI681511, AA677498, AI799484, AI360937, AI378075, AI457270, AI363333, AI681227.	AI806180, AI363339, AA972313, AA627925, AI984311, AA483815, N25951, AI250808,	AI417147, AW297301, AI079688, AW009637, AI289263, AA768395, AA769533, AW085089.	AW368116, AW067835, AI110587, N26848, W15533, AI129095, AW298190, AI300955,	AI870137, AW410019, AI808400, AA748383, AA479673, AW269239, AA281561, AA807144,	AW291197, AW373450, and N42781.	H93040, H93056, AA719305, AA808945, AI342677, AA742815, AC006581, AP000045,	AP000113, AC007684, AC002404, AC003070, AC003042, AP000327, AC003043, AC005829,	AB023048, AP000123, AP000170, AP000055, AC007066, AC002350, AC005399, AL135744.	AC005031, AF001549, AC004913, Z95114, AL031663, AL008729, Z97054, AL133355.	AC000381, AC005207, AC009516, U80017, Z81370, AC006023, AC006449, AC005296.	AC005069, AC000118, AC004821, AC006146, AC005037, AC006441, AL109798, AL031432,	AL080243, AC004819, AL109627, AC002477, and AC004882.					AW168869, and AI904433.		AW419224, AW419225, and AW419223.	AL119483, AA809125, AL119444, AA835346, AA188940, AC016027, AC016830, AC005529	AC005261, AC004531, AC005255, AC006137, AC006080, AL049874, AL132777, L44140,	AL031983, AC006515, AC004659, Z85987, AC005531, AF134726, AC006441, AC004858,	AF053356, AP000552, AC005740, AP000503, AC012627, AC004882, AC003108, AC007934.	AL049758, AC005181, AF109907, AC004033, AC005091, AC007685, AC005971, AC003663,	AC005274, AC005089, AL049829, AC006449, U96629, AC004973, AL049872, AC007283,	AC005057, AC004231, AL035413, AL078638, AC006023, AC005815, AL031311, AL023803,	ACU05821, AL049780, AL031228, AC005919, AP000555, AL049631, AC004895, AC005072, AC005736, AL021155, AL02165, AL133448, AL133245, AC007055, AL000718, AC004526
	claimer Range of b	15 - 73	15 - 162	15 - 606	15 - 708						15 - 742							15 - 361	15 - 70	15 - 423	15 - 97	15 - 724	15 - 135	15 - 338	15 - 506							
	EST Disclaimer Range of a Range	1 - 59	1 - 148	1 - 592	1 - 694				-		1 - 728							1 - 347	1 - 56	1 - 409	1 - 83	1 - 710	1 - 121	1 - 324	1 - 492		-					• .
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SEQ	NO: X	11	12	13	14					,	15						,	16	17	18	19	20	21	22	23					-		-
	Clone ID NO: Z	H7MCE35	H7MDC49	H7MDD72	HAOSH55						HAQAK73							HAQAM17	HAQBF84	HAQBJ71	HAQBQ50	\dashv	HAUBD69	HAUBU10	HBCJS08							

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					1 - 127	1 - 124									1 - 50/	1 - 607	1 - 314	1 - 240	1 - 689								1 - 183	1 - 403	1-318	1 - 555
					963634	922401								1	78/126	930682	525846	957870	95236						_		524532	954299	525352	954916
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-	36	525618	1 - 493	15 - 507	
	37	524875	1 - 125	15 - 139	
	38	971696	1 - 245	15 - 259	
HBGDT43	39	974223	1 - 433	15 - 447	AIS67076, AW270343, AA169263, AW275510, AI801482, AA362511, AI933534, AA847499,
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	1 - 628	1 - 575	1 - 315	1 - 555
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	HBGFA62	HBGMD05	HBGMD62	HBGMF10

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	1 - 328	1 - 588	1 - 223	1 - 1164	1 - 317	1 - 348	,													-						3,50	1 - 369		-			-	
	845194	947112	958257	848219	914594	912730		-											•				-			050010	717766						-
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HBGNQ31	51	887152	1 - 355	15 - 369	AI097455, AW073155, AI690321, AA283204, AI739096, and AI068607
HBGNW29	52	966396	1 - 421	15 - 435	AI809990,
HBGOB07	53	883111	1 - 465	15 - 479	R15924, AI796491, AI346263, AA767342, AW173117, AW148990, AA860973, AI014603,
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HBG0J28	54	967261	1 - 585	15 - 599	AW406518, R27278, W05444, W87344, AI159814, N56542, W87345, AA053475, A1905056
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HBGOK53	55	848156	1 - 621	15 - 635	Al459692, AW150902, AA781854, AI823723, and AC006255.
HBGOL08	99	958290	1 - 449	15 - 463	AA113287, D29499, AW294903, AW298373, AW297351, AW294452, Z40314, AI623657.
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HBGPH02	28	918513	1 - 508	15 - 522	A1167166, A1034322, AA084622, AA457685, A1246080, AA448838, A1754291, AW243793,
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	AC007450, AC005011, AF196779, AC005015, U91321, AL050332, AC005180, AF085913,	

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	-15-216	15 - 130	15 - 504	15 - 1380	15 - 361	15 - 118	15 - 724
	1 - 202	1 - 116	1 - 490	1 - 1366	1 - 347	1 - 104	1 - 710
	954866	117671	934941	927904	932878	925748	951665
	96	62	86	66	100	101	102
	HCHOD89	HCHPO55	нсновое	HCMSE07	HCOMZ41	HC00G04	HC00I07